# QUARTERLY REPORT QUARTERLY PERIMETER AIR MONITORING REPORT HUNTERS POINT SHIPYARD, PARCEL B SAN FRANCISCO, CALIFORNIA DELIVERY ORDER NO. 0109

Fourth Calendar Quarter October 1, 1998 through December 31, 1998

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**April 1999** 

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## List of Abbreviations/Acronyms\_

CERCLA Comprehensive Environmental Response, Compensation and Liability Act

CFR Code of Federal Regulations

CLEAN Comprehensive Long-Term Environmental Action - Navy

DoD Department of Defense

EFA, West United States Navy, Engineering Field Activity, West

EPA United States Environmental Protection Agency

GC Gas Chromatographic HPS Hunters Point Shipyard

HPLC High Performance Liquid Chromatographic

IT IT Corporation

IRP Installation Restoration Program

metals metals in suspended particulate matter

 $\mu$ g/m<sup>3</sup> micrograms per cubic meter

mps meters per second NPL National Priority List

PAHs polynuclear aromatic hydrocarbons
PAMP Perimeter Air Monitoring Plan
PCBs polychlorinated biphenyls
ppmv part per million by volume

PUF polyurethane foam OC Quality Control

RAM real-time aerosol monitor

SVOCs semi-volatile organic compounds

VOCs volatile organic compound

§ Subsection

## 1.0 Introduction

As a function of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), IT Corporation (IT) was contracted by the United States Navy, Engineering Field Activity, West (EFA, West) to perform environmental restitution activities at Hunters Point Shipyard (HPS) located in San Francisco, California. (See Figure 1-2.) The portion IT is currently remediating is identified as Parcel B. (See Figure 1-1.).

In accordance with the "Draft Final Revision 1, Parcel B Remedial Design Document II, Technical Specifications/Drawings, Remedial Action Document, Hunters Point Shipyard, San Francisco, California" (Specifications), Section 01420 (Tetra Tech, et. al., 1998, hereafter referred to as the CLEAN Contractor), and at the direction of EFA, West, a perimeter air monitoring program was implemented. The objective of the air monitoring is to assist in protecting the public health of the nearby community and environment by documenting concentrations of specific air contaminants and comparing them to specified levels. Perimeter air monitoring is performed at Parcel B to identify any conditions requiring corrective measures necessary to assure that public health and the environment are not compromised as a result of the remedial activities. The Perimeter Air Monitor Plan (PAMP [IT, 1998a]) and the Specifications (Tetra Tech, et. al., 1998) require quarterly reports summarizing air monitoring data for the quarter.

#### 1.1 Report Format

This Quarterly Perimeter Air Monitoring Report provides a description of the air monitoring network and summarizes monitoring results for the fourth quarter of 1998 (October 1 through December 31, 1998). The report sections are described below.

- Section 1 provides an introduction to the report.
- Section 2 provides background information, including a description of the site and a summary of historical use of the site.
- Section 3 provides a summary of the air monitoring program and the results of air monitoring and sampling.

- Section 4 provides maintenance and calibration procedures for equipment and instruments used during the quarter.
- Section 5 provides a summary of the Quality Assurance Performance Audit.

## 2.0 Background

A summary of background information is presented below, including a description and historic account of land use at the site. The majority of the information presented in this section was taken from a Public Health Assessment (U.S. Public Health Service, 1994).

#### 2.1 Site Description

The HPS site is located in the southeastern portion of San Francisco, California (Figure 1-2). It is bounded by an off-site residential and industrial community, the Hunters Point/Bayview area, on the west. The site occupies a total of 965 acres (500 acres on land and 465 acres in the bay). Originally, the land mass of the HPS was less than 100 acres. The Navy increased the land mass of HPS primarily by using earth from the surrounding hills as fill. Some of the bay fill area and the industrial landfill is composed of sandblast waste and miscellaneous industrial debris. Most of the site is fenced, although some areas are accessible by boat or by foot.

Hunters Point/Bayview is a community composed of residential, commercial, and industrial properties. A natural gas-fueled steam generating power plant is located about a mile north of HPS. The Southeast Sewage Treatment Plant for the City and County of San Francisco is located approximately one mile west of HPS. There is a water bottling company within one-half mile of the site. The Candlestick Point State Recreation Area and 3Com Park and professional sports stadium are located approximately one mile southwest of the site. Other industrial facilities such as concrete recycling take place in the general vicinity.

## 2.2 Site History

The site has been used for over 100 years as a ship repair facility. The northern and eastern shores of HPS were used for ship repair with drydock and berthing facilities; the southern shore was not used for shipping activities. The waterfront facilities consist of 40 deep-water berths and six dry docks of various sizes. The remaining facilities consist of office, industrial and residential buildings. There is one Navy administrative building on the site, but no Naval shipyard activities are taking place.

Naval operations at HPS began in 1941. The Navy increased ship building operations to accelerate production of liberty ships during World War II. From 1941 to 1974, the principal

facility activity was ship building; Naval ships and submarines were also modified, maintained, and repaired at this facility. In addition to repair activities, the facility was used for housing, naval ordinance, training exercises, and other research efforts.

The site remained an active base until 1974, when it was placed on industrial reserve. The majority of HPS was leased to Triple A Machine Shop, Inc. (Triple A) from 1976 to 1986 during which time the site was used for ship repair. During this period, Triple A subleased some of the buildings on the site to small businesses (artists, light industrial firms and private warehousing companies). After Triple A left, the subleasees remained.

In 1981, the Department of Defense (DoD) developed the Installation Restoration Program (IRP) to investigate hazardous material disposal sites at DoD facilities. Currently, the Navy is conducting investigations and remediation under the IRP.

In 1986, HPS was taken back by the Navy to be developed as an annex to the Naval Station Treasure Island. Extensive soil and groundwater testing took place to characterize the environmental conditions at this time. Based on the results of the testing, HPS was placed on the United States Environmental Protection Agency's (EPA) National Priority List (NPL) in 1989. The initial Federal Facilities Agreement was signed January 22, 1992, between the Navy, EPA, the State of California, Department of Toxic Substances Control, and the Regional Water Quality Control Board.

The Base Realignment and Closure Commission has selected and approved HPS for closure and disposition. This site represents a significant parcel of land available for redevelopment in San Francisco.

## 3.0 Air Monitoring Program

Air monitoring was performed during excavation and soil-handling operations in order to assess potential migration of air contaminants from work activities. Air sampling and monitoring were performed in accordance with the PAMP (IT, 1998a). The perimeter air monitoring program consisted of stationary integrated air samplers, real-time air monitoring, collection of meteorological data, and assessment of the data against the established guidelines for this project.

Integrated air sampling was conducted for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), pesticides and polychlorinated biphenyls (PCBs), and metals in suspended particulate matter (metals). These samples provided 24-hour integrated sample data that was used to determine potential effects on human health and the environment. Action Levels for target analytes were established in the Specifications (Tetra Tech, 1998). Action Levels are based on a combination of available data from Occupational Safety and Health Act Permissible Exposure Limits, National Institute of Occupational Safety and Health Recommended Exposure Limits, EPA, Reference Doses and Concentrations, National Ambient Air Quality Standards, the Health Effects Assessment Summary Table, and the CLEAN Contractor calculations.

Real-time air monitoring was conducted for concentrations of total particulate and VOCs. These activities provided instantaneous data for evaluation of real-time emissions.

Meteorological monitoring was conducted to collect data including wind speed, horizontal wind direction, ambient temperature, barometric pressure, and precipitation. Meteorological data were used to make sampler flow calculations and to evaluate integrated air monitoring analytical results.

Sample collection and air monitoring were conducted in accordance with the PAMP (IT, 1998a). The PAMP (IT, 1998a) is the governing document and provides guidelines for the performance of perimeter air monitoring during the environmental restoration activities conducted at Parcel B, including but not limited to, excavation and soil-handling operations. The Response Conditions

defined in the PAMP (IT, 1998a), §§ 4.3 and 4.4, are used to determine the frequency intervals of integrated air sampling and real-time air monitoring.

Integrated sampling frequency is based on the concentrations and carcinogenicity of detected contaminants. There are three progressively more stringent Response Conditions defined in the PAMP (IT, 1998a) for integrated sampling as presented in the table below:

| Response Condition | Frequency                |
|--------------------|--------------------------|
| I                  | Every third calendar day |
| II                 | Every other calendar day |
| III                | Every day                |

Real-time air monitoring frequency is based on visible dust, particulate readings, and VOC readings. There are three progressively more stringent Response Conditions defined as presented in the following table.

| Response Condition | Frequency   |
|--------------------|---|
| I                  | One 5-minute monitoring period at least every 2 hours                         |
| П                  | One 5-minute monitoring period at least every hour                            |
| III                | Continuous 5-minute monitoring periods until Response Condition I is achieved |

#### 3.1 Integrated Air Sampling Program

Samples were collected at six air sampling stations (Sample Stations A through F) at five perimeter locations (Figure 1-2). Locations were selected to provide data from upwind and downwind of work areas. The collocated station (Station E), at the northeastern corner of Parcel B, was used to collect duplicate integrated samples to confirm the precision of sample collection and analytical methods. Sampling stations are located in areas clear of obstacles (e.g., trees, structures, etc.) at least 2 meters above the ground, on a flat base that allows free flow of weather elements (precipitation and wind), and are secured with a locking chain-linked fence. The high-

volume air sampling instruments are protected from the elements by stainless steel housings with air inlets that permit air flow to sample collection media. Exhaust flow for the polyurethane foam (PUF) samplers is directed away from the inlet to prevent recycling of air.

Throughout the first two months of the fourth quarter, integrated air samples were collected in accordance with Response Condition I as prescribed in the PAMP (IT, 1998a). Beginning on December 18, 1998, metals sampling was escalated to Response Condition III where it remained for the duration of the fourth quarter (see Section 3.1.4.3).

The criteria used to determine the analytical categories (i.e., VOCs, SVOCS, pesticides and PCBs, and metals) required for integrated sampling were reviewed on a daily basis. Stockpiled material and soil-moving activities were also considered in determining which categories were selected for sampling. Per the PAMP (IT, 1998a), the analytical parameters requested were based on the listed target compounds for each excavation area (Table 3-1) and Action Level criteria (Table 3-2). A summary of dates of activities for each excavation, including the air monitoring target analytes for each excavation is also presented in Table 3-1. Tables 3-3 through 3-14 summarize analytical results of operational as well as non-operational days. If any target analyte within a category was present at an excavation, analyses were performed for all target analytes in that category.

Integrated air samples collected this quarter were submitted to K Prime, Inc. (State of California, Environmental Laboratory Accreditation/Certification Process #1532), located in Santa Rosa, California, under Chain-of-Custody protocol. Air samples were analyzed for VOCs, SVOCs, pesticides, PCBs, and metals except for samples collected between November 24 through November 30, 1998. During this period, because there were no known remedial activities conducted associated with VOCs, there were no samples submitted for analyses of VOCs [PAMP (IT, 1998a)].

As a quality control measure, duplicate samples and field blanks were collected at a rate of at least 10 percent of the total number of integrated air samples collected at the site. Duplicates of samples collected at Station D were collected at adjacent Station E and submitted for laboratory analyses. Blanks were carried into the field during sample collection, again at a minimum rate of 10 percent, and submitted for laboratory analyses with the samples collected from the stations.

The following paragraphs summarize the analytical methods and results of analyses of samples collected during this quarter. Tabular summaries of laboratory analytical are presented in Appendices A through D. Copies of the laboratory reports are presented in Appendix E.

#### 3.1.1 Volatile Organic Compounds Results

Samples collected for analyses of VOCs were collected using an Ambient Volatile Organic Compound Sampler and analyzed following the guidelines in the method listed below.

VOCs: EPA Method TO14 (EPA, 1988d).

The results of laboratory analyses of samples collected on operational days are presented in Table 3-3. The data includes mean concentrations, maximum concentration, standard deviation, 90th percentile, and number of samples. The same data for non-operational days are presented on Table 3-4, and for total operational and non-operational days on Table 3-5. A summary of the laboratory results for VOCs is presented in Appendix A. Copies of laboratory reports are presented in Appendix E.

As defined in the PAMP (IT, 1998a), exceedances of site Action Levels for VOCs are presented on Table 3-15. The table summarizes predominant wind direction, upwind station analytical result, downwind analytical result, site contribution, Action Limit, and Action Limit exceedance. On occasions when Action Levels were exceeded, upwind and downwind stations were compared. If the downwind concentration was greater than the upwind concentration, the difference was compared with the Action Level. Where the difference was greater than the Action Level, corrective action was taken in the field where necessary and an explanation is provided. Results of laboratory analyses for individual analytes are discussed below.

#### 3.1.1.1 Benzene

Average concentrations of benzene on operational days ranged from 1.626  $\mu$ g/m³ (micrograms/cubic meter) to 1.956  $\mu$ g/m³. Maximum concentrations on operational days ranged from 3.16  $\mu$ g/m³ at Station E to 3.55  $\mu$ g/m³ at Stations A, B and F. In most cases when the benzene concentration of a downwind sample was greater than that of an upwind sample, the difference between the two was less than the Action Level for

benzene. Summary benzene results for fourth quarter operational days are presented in Table 3-3.

Table 3-15 presents cases where the difference between the upwind and downwind sample exceeded the benzene Action Level of  $0.65~\mu g/m^3$ . Although analytical data reported single station benzene exceedances for several sampling events, only two sampling events indicated benzene exceedances after comparing upwind and downwind concentrations. The first exceedance occurred on Sunday, October 25, 1999. The wind was from the west-southwest, blowing away from the general public. An upwind concentration of  $1.63~\mu g/m^3$  was reported at Station A while a downwind concentration of  $2.36~\mu g/m^3$  was reported at Station D. The difference between the two concentrations is  $0.73~\mu g/m^3$ , a concentration which exceeds the action level of  $0.65~\mu g/m^3$ . There were no construction activities performed on that day; therefore, the exceedance was not due to on-site construction operations. Further data from the next sampling event on October 28 shows that on-site benzene had returned to acceptable levels. This indicates that the exceedance on October 25 was anomalous.

Analytical results of the November 6 sampling event indicate an on-site benzene exceedance. The wind was primarily out of the southwest, away from the general public. Station F reported an upwind concentration of  $0.83~\mu g/m^3$  while Station D reported a downwind concentration of  $1.60~\mu g/m^3$ . The difference between the two  $(0.77~\mu g/m^3)$  is in exceedance of the benzene Action Level of  $0.65~\mu g/m^3$ . A review of construction operational logs indicate that on November 6, tractor-trailers were loaded throughout the day out of Building 123, directly upwind from Station D. These activities were the only major events occurring in Parcel B on November 6, a fact which suggests that these operations may have caused the high benzene concentrations. On December 7, when the analytical data from the sampling event was received, these operations were no longer occurring.

According to the PAMP criteria for carcinogens, no immediate action was necessary because the average on-site benzene concentrations for the project duration were all below the benzene Action Level, and because the operations which resulted in the high concentrations had ceased by the time the exceedence was reported. Furthermore, analytical data from the next sampling event on November 9 shows that the on-site benzene concentration had

returned to an acceptable level. This indicates that the exceedance of November 6 was anomalous.

#### 3.1.1.2 1,2-Dichloroethane

The site Action Level for 1,2-dichloroethane is 3  $\mu$ g/m³. Laboratory analyses reported all concentrations of this contaminant in submitted samples were below the detection limit of 0.4  $\mu$ g/m³. No concentration of 1,2-dichloroethane exceeded the Action Level.

#### 3.1.1.3 1,1-Dichloroethene

The site Action Level for 1,1-dichloroethene is 1.4  $\mu$ g/m³. Laboratory analyses reported all concentrations of this contaminant in submitted samples were below the detection limit of 0.4  $\mu$ g/m³. No concentration of 1,1-dichloroethene exceeded the Action Level.

#### 3.1.1.4 Tetrachloroethene

The site Action Level for tetrachloroethene is 35  $\mu$ g/m³. Laboratory analyses reported concentrations of this contaminant ranging from less than the detection limit of 0.7  $\mu$ g/m³ to 4.0  $\mu$ g/m³. No concentration of tetrachloroethene exceeded the Action Level.

#### 3.1.1.5 Xylene

The site Action Level for xylene is 4,350  $\mu$ g/m³. Laboratory analyses reported concentrations of this contaminant ranging from less than 0.2  $\mu$ g/m³ to 102.9  $\mu$ g/m³. No concentration of xylene exceeded the Action Level.

## 3.1.2 Semi-Volatile Organic Compounds Results

Samples collected for analyses of SVOCs were collected on PUF filters following the guidelines in the method listed below:

• PAHs: EPA Method TO13 (EPA, 1988a).

The results of laboratory analyses of samples collected on operational days are presented on Table 3-6. The information includes mean concentration, maximum concentration, standard deviation, 90th percentile, and number of samples. The same information for non-operational days is presented in Table 3-7, and for total operational and non-operational days in Table 3-8.

A summary of the laboratory results for SVOCs is presented in Appendix B. Copies of laboratory reports are presented in Appendix E.

Exceedances of site Action Levels for SVOCs are presented on Table 3-15. The table summarizes predominant wind direction, upwind station analytical result, downwind analytical result, site contribution, Action Level, and Action Level exceedance. On occasions when Action Levels were exceeded, upwind and downwind stations were compared and the difference was calculated. If the downwind concentration was greater than the upwind concentration, the difference was compared with the Action Level. Where the difference was greater than the Action Level, corrective action was taken in the field where necessary and an explanation is provided. Results of laboratory analyses for individual analytes are discussed below.

#### 3.1.2.1 Benzo(a)anthracene

The site Action Level for benzo(a)anthracene is  $0.3 \mu g/m^3$ . Laboratory analyses reported all concentrations of this contaminant in submitted samples were below the detection limit of  $0.002 \mu g/m^3$ . No concentration of benzo(a)anthracene exceeded the Action Level.

#### 3.1.2.2 Benzo(a)pyrene

The site Action Level for benzo(a)pyrene is  $0.04 \mu g/m^3$ . Laboratory analyses reported all concentrations of this contaminant in submitted samples were below the detection limit of  $0.002 \mu g/m^3$ . No concentration of benzo(a)pyrene exceeded the Action Level.

#### 3.1.2.3 Benzo(b)fluoranthene

The site Action Level for benzo(b)fluoranthene is  $0.3 \mu g/m^3$ . Laboratory analyses reported all concentrations of this contaminant in submitted samples were below the detection limit of  $0.002 \mu g/m^3$ . No concentration of benzo(b)fluoranthene exceeded the Action Level.

#### 3.1.2.4 Benzo(k)fluoranthene

The site Action Level for benzo(k)fluoranthene is  $0.8 \mu g/m^3$ . Laboratory analyses reported concentrations of this contaminant ranged from less than  $0.002 \mu g/m^3$  to  $0.008 \mu g/m^3$ . No concentration of benzo(k)fluoranthene exceeded the Action Level.

#### 3.1.2.5 Bis(2-ethylhexyl)phthalate

Average concentrations of bis(2-ethylhexyl)phthalate on operational days ranged from  $0.002 \mu g/m^3$  at Stations A, B, C and F to  $0.007 \mu g/m^3$  at Station D. Maximum concentrations of bis(2-ethylhexyl)phthalate on operational days ranged from 0.002  $\mu g/m^3$  at Stations A, B and F to 0.120  $\mu g/m^3$  at Station D. Data from the sampling event on November 24 shows a level of bis(2-ethylhexyl)phthalate at Station E (0.032 µg/m<sup>3</sup>). which is in exceedance of the bis(2-ethylhexyl)phthalate Action Level of 0.018  $\mu$ g/m<sup>3</sup>. The wind on November 24 was primarily out of the southwest, away from the general public. All upwind stations reported non-detectable levels of bis(2-ethylhexyl)phthalate on November 24, therefore the downwind concentration of 0.032  $\mu$ g/m<sup>3</sup> at Station E suggests an exceedance resulting from on-site activities. Upon review of construction operational logs it was noted that on November 24, trucks were loaded throughout the day near Station E. These operations occurred directly adjacent and upwind of Station E. Analytical data from November 24 was received on December 14, by which time the operations in question were no longer occurring. According to the PAMP criteria for carcinogens no immediate action was necessary because the average on-site bis(2-ethylhexyl)phthalate concentrations for the project duration were all below the bis(2-ethylhexyl)phthalate Action Level, and because the operations which resulted in the high concentration were no longer occurring by the time the exceedance was reported. Furthermore, analytical data from the next sampling event on November 27 shows non-detectable levels of bis(2-ethylhexyl)phthalate for all stations.

Analytical data from the sampling event on December 12 reported a bis(2-ethylhexyl)phthalate concentration of  $0.019~\mu g/m^3$  at Station D, which is in exceedance of the bis(2-ethylhexyl)phthalate Action Level of  $0.018~\mu g/m^3$ . The wind on December 12 was out of the northwest, away from the general public. All upwind stations reported non-detectable level of bis(2-ethylhexyl)phthalate on December 12, suggesting that the source of contamination was on-site. Upon review of construction operational logs it was noted that December 12 was a Sunday on which no construction operations occurred, therefore the bis(2-ethylhexyl)phthalate exceedance was not caused by on-site construction activities. Furthermore, analytical data from the next sampling event on December 15 shows acceptable levels of bis(2-ethylhexyl)phthalate at all stations, indicating that the exceedance was an anomaly.

#### 3.1.2.6 Chrysene

The site Action Level for chrysene is  $0.14 \,\mu\text{g/m}^3$ . Laboratory analyses reported that all concentrations of this contaminant were below the detection limit of  $0.002 \,\mu\text{g/m}^3$ . No concentration of chrysene exceeded the Action Level.

#### 3.1.2.7 Dibenzo(a,h)anthracene

The site Action Level for dibenzo(a,h)anthracene is  $0.04 \,\mu\text{g/m}^3$ . Laboratory analyses reported all concentrations of this contaminant in submitted samples were below the detection limit of  $0.002 \,\mu\text{g/m}^3$ . No concentration of dibenzo(a,h)anthracene exceeded the Action Level.

#### 3.1.2.8 Indeno(1,2,3-cd)pyrene

The site Action Level for indeno(1,2,3-cd)pyrene is  $0.14 \,\mu\text{g/m}^3$ . Laboratory analyses reported all concentrations of this contaminant were below the detection limit of  $0.002 \,\mu\text{g/m}^3$ . No concentration of indeno(1,2,3-cd)pyrene exceeded the Action Level.

#### 3.1.2.9 N-nitrosodipropylamine

The site Action Level for n-nitrosodipropylamine is  $0.04 \,\mu\text{g/m}^3$ . Laboratory analyses reported all concentrations of this contaminant in submitted samples were below the detection limit of  $0.009 \,\mu\text{g/m}^3$ . No concentration of n-nitrosodipropylamine exceeded the Action Level.

## 3.1.3 Pesticides and Polychlorinated Biphenyls

Samples collected for analyses of pesticides and PCBs were collected on PUF filters following the guidelines in the methods listed below.

- Pesticides and PCBs: EPA SW-846, Method 8081 (EPA, 1986b).
- Pesticides: Method T0-4 (EPA, 1984c).

The results of laboratory analyses of samples collected on operational days are presented on Table 3-9. The information includes mean concentration, maximum concentration, standard deviation, 90th percentile, and number of samples. The same information for non-operational days is presented in Table 3-10, and for total operational and non-operational days in Table 3-11. A summary of the laboratory results for pesticides and PCBs is presented in Appendix C. Copies

of laboratory reports are presented in Appendix E.

Exceedances of site Action Levels for pesticides and PCBs are presented on Table 3-15. The table summarizes predominant wind direction, upwind station analytical result, downwind analytical result, site contribution, Action Level, and Action Level exceedance. On occasions when Action Levels were exceeded, upwind and downwind stations were compared. If the downwind concentration was greater than the upwind concentration, the difference was compared with the Action Level. Where the difference was greater than the Action Level, corrective action was taken in the field where necessary and an explanation is provided. Results of laboratory analyses for individual analytes are discussed below.

#### 3.1.3.1 Aldrin

The site Action Level for aldrin is  $0.014~\mu g/m^3$ . Laboratory analyses reported all concentrations of this contaminant in submitted samples were below the detection limit of  $0.0002~\mu g/m^3$ . No concentration of aldrin exceeded the Action Level.

#### 3.1.3.2 4.4'-DDD

The site Action Level for 4,4'-DDD is  $0.012 \,\mu\text{g/m}^3$ . Laboratory analyses reported all concentrations of this contaminant in submitted samples were below the detection limit of  $0.0002 \,\mu\text{g/m}^3$ . No concentration of 4,4'-DDD exceeded the Action Level.

#### 3.1.3.3 4,4'-DDE

The site Action Level for 4,4'-DDT is  $0.009 \,\mu\text{g/m}^3$ . Laboratory analyses reported all concentrations of this contaminant in submitted samples were below the detection limit of  $0.0002 \,\mu\text{g/m}^3$ . No concentration of 4,4'-DDT exceeded the Action Level.

#### 3.1.3.4 4,4'-DDT

The site Action Level for 4,4'-DDT is  $0.7~\mu g/m^3$ . Laboratory analyses reported all concentrations of this contaminant in submitted samples were below the detection limit of  $0.0002~\mu g/m^3$ . No concentration of 4,4'-DDT exceeded the Action Level.

#### 3.1.3.5 Aroclor-1242

The site Action Level for Aroclor-1242 is 0.01  $\mu$ g/m³. Laboratory analyses reported all concentrations of this contaminant in submitted samples were below the detection limit of 0.002  $\mu$ g/m³. No concentration of Aroclor-1242 exceeded the Action Level.

#### 3.1.3.6 Aroclor-1254

The site Action Level for Aroclor-1254 is 0.01  $\mu$ g/m³. Laboratory analyses reported all concentrations of this contaminant in submitted samples were below the detection limit of 0.002  $\mu$ g/m³. No concentration of Aroclor-1254 exceeded the Action Level.

#### 3.1.3.7 Aroclor-1260

The site Action Level for Aroclor-1260 is 0.01  $\mu$ g/m³. Laboratory analyses reported concentrations of this contaminant in submitted samples ranged from less than 0.002  $\mu$ g/m³ to 0.01  $\mu$ g/m³. No concentration of Aroclor-1260 exceeded the Action Level.

#### 3.1.4 Metals Results

Samples collected for analyses of total suspended particulate and metals in suspended particulate were collected on glass or quartz fiber filters and analyzed following the guidelines below.

- Suspended Particulate Matter: Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere (Title 40 of the Code of Federal Regulations (CFR) Chapter 50, Appendix B, 1987).
- Lead: Reference Method for Detection of Lead in Suspended Particulate Matter Collected from Ambient Air (40 CFR 51, Appendix G, 1987).

The results of laboratory analyses of samples collected on operational days are presented on Table 3-12. The information includes mean concentration, maximum concentration, standard deviation, 90th percentile, and number of samples. The same information for non-operational days is presented on Table 3-13, and for total operational and non-operational days on Table 3-14. A summary of the laboratory results for metals is presented in Appendix D. Copies of laboratory analytical reports are presented in Appendix E.

Exceedances of site Action Levels for metals are presented on Table 3-15. The table summarizes predominant wind direction, upwind station analytical result, downwind station analytical result, site contribution, Action Level, and Action Level exceedance. On occasions when Action Levels were exceeded, upwind and downwind stations were compared. If the downwind concentration was greater than the upwind concentration, the difference was compared with the Action Level. Where the difference was greater than the Action Level, corrective action was taken in the field and an explanation is provided. Results of laboratory analyses for individual analytes are discussed below.

#### 3.1.4.1 Aluminum

The site Action Level for aluminum is 150  $\mu$ g/m³. Laboratory analyses reported all concentrations of this contaminant in submitted samples were below the detection limit of 2.50  $\mu$ g/m³. No concentration of aluminum exceeded the Action Level.

#### 3.1.4.2 Arsenic

The site Action Level for arsenic is  $0.014 \,\mu\text{g/m}^3$ . Laboratory analyses reported concentrations of this contaminant ranging from less than  $0.001 \,\mu\text{g/m}^3$  to  $0.003 \,\mu\text{g/m}^3$ . No concentration of arsenic exceeded the Action Level.

#### 3.1.4.3 Manganese

Average concentrations of manganese on operational days ranged from  $0.015~\mu g/m^3$  at Station B to  $0.037~\mu g/m^3$  at Station C. Maximum concentrations of manganese on operational days ranged from  $0.045~\mu g/m^3$ . at Station D to  $0.123~\mu g/m^3$  at Station C. The site Action Level for manganese is  $0.05~\mu g/m^3$ . Table 3-5 presents cases where sample concentrations exceeded the manganese Action Level; however only two sampling events report exceedances when the difference between upwind and downwind concentrations are considered.

Analytical data from November 18 reported a manganese concentration of 0.123  $\mu$ g/m<sup>3</sup> from a sample collected at Station C. The wind was primarily out of the north-northeast, therefore Station C was at a downwind location. A sample collected at Station B (upwind) indicated a manganese concentration of 0.021  $\mu$ g/m<sup>3</sup>, suggesting an on-site manganese concentration of  $0.102 \mu \text{g/m}^3$ . Laboratory analytical results were received on December 15. The daily report for December 15 lists actions which were taken in order to mitigate any further manganese exceedances at Station C. These actions included: coating the ground surface with soil cement to minimize dust; researching an applicable revegetation process for the area around the station; initiating intensive cleaning efforts on Innes Avenue to remove any loose soil; and placing manganese analytical data on a rush turnaround from the lab in order to closely monitor the trend. Upon review of construction operational logs it was noted that tractor-trailers hauling fill material were passing by Station C throughout the day, and two IR-18 excavations were being backfilled on November 18. Due to the fact that these operations were no longer occurring on December 15, and also since real-time air monitoring data remained at Action Level I, operations were allowed to continue. The TSP sampling, however, was escalated to Response Condition III as dictated by the PAMP, a frequency at which it remained through the remainder of the quarter.

Analytical data from the sampling event on December 21 also reported high concentrations of manganese. The wind was primarily out of the north. Station D reported an upwind manganese concentration of  $0.045~\mu g/m^3$  while Station F reported a downwind concentration of  $0.103~\mu g/m^3$ , resulting in an on-site manganese concentration of  $0.058~\mu g/m^3$  which exceeds the manganese Action Level  $(0.05~\mu g/m^3)$ . The TSP sampling had been escalated to Response Condition III on December 15; therefore no sampling schedule modification was necessary. The Air Monitoring Daily Report for January 5, 1999 details the actions taken to prevent further manganese exceedances. Although real-time air monitoring was at Response Condition I on January 5, all construction activities which may have contributed to manganese exceedances were ceased until further data indicated that manganese levels were below the Action Level. Actions taken on January 5 included: thoroughly cleaning all roadways to minimize dust; controlling vehicle speed on site; applying soil cement to the surfaces of all backfilled excavations; and increasing real-time sampling to once every hour for two days. No exceedances were reported from real-time sampling. Work was allowed to continue when analytical data for the three sampling events after December 21 reported no manganese exceedances at any station.

#### 3.1.4.4 Antimony

The site Action Level for antimony is  $5 \mu g/m^3$ . Laboratory analyses reported all concentrations of this contaminant in submitted samples were below the detection limit of  $0.50 \mu g/m^3$ . No concentration of antimony exceeded the Action Level.

#### 3.1.4.5 Beryllium

The site Action Level for beryllium is  $0.03 \mu g/m^3$ . Laboratory analyses reported all concentrations of this contaminant in submitted samples were below the detection limit of  $0.01 \mu g/m^3$ . No concentration of beryllium exceeded the Action Level.

#### 3.1.4.6 Copper

The site Action Level for copper is  $10 \,\mu\text{g/m}^3$ . Laboratory analyses reported concentrations of this contaminant ranged from less than  $0.010 \,\mu\text{g/m}^3$  to  $0.528 \,\mu\text{g/m}^3$ . No concentration of copper exceeded the Action Level.

#### 3.1.4.7 Zinc

The site Action Level for zinc is  $1050 \,\mu\text{g/m}^3$ . Laboratory analyses reported concentrations of this contaminant ranged from  $0.001 \,\mu\text{g/m}^3$  to  $0.182 \,\mu\text{g/m}^3$ . No concentration of zinc exceeded the Action Level.

#### 3.1.4.8 Lead

The site Action Level for lead is 1.5  $\mu$ g/m³. Laboratory analyses reported concentrations of this contaminant ranged from less than 0.02  $\mu$ g/m³ to 0.80  $\mu$ g/m³. No concentration of lead exceeded the Action Level.

#### 3.1.4.9 Nickel

The site Action Level for nickel is  $10 \mu g/m^3$ . Laboratory analyses reported all concentrations of this contaminant in submitted samples were below the detection limit of  $0.13 \mu g/m^3$ . No concentration of nickel exceeded the Action Level.

#### 3.1.4.10 Mercury

The site Action Level for mercury is  $0.3 \mu g/m^3$ . Laboratory analyses reported all concentrations of this contaminant in submitted samples were below the detection limit of  $0.001 \mu g/m^3$ . No concentration of mercury exceeded the Action Level.

#### 3.1.4.11 Vanadium

The site Action Level for vanadium is  $0.5 \mu g/m^3$ . Laboratory analyses reported concentrations of this contaminant ranged from less than  $0.1 \mu g/m^3$  to  $0.125 \mu g/m^3$ . No concentration of vanadium exceeded the Action Level.

#### 3.2 Real-Time Air Monitoring Program

Real-time air monitoring was performed for airborne particulate and VOCs in accordance with the PAMP §3.2.3 (IT, 1998a). Frequency of real-time air monitoring was determined by the Response Conditions outlined in Section 3.0 of this document.

Real-time monitoring procedures included determining and recording the predominant wind direction; monitoring in the area downwind from the operational areas; monitoring upwind of the operational area if an exceedance of the Action Level occurs: and recording the following information:

- a. Time
- b. Observed wind direction
- c. Monitoring location(s)
- d. Site activities
- e. Visual observations of dust
- f. Observed odors
- g. Site conditions
- h. Five-minute estimated average concentrations of VOCs and particulate.

A summary of real-time air monitoring particulate data is presented in Appendix F.

#### 3.2.1 Real-Time Particulate Air Monitoring Results

Airborne particulate was monitored using a real-time aerosol monitor (RAM). Per the PAMP §4.4 (IT, 1998a), standard 2-hour interval real-time monitoring as defined for Response Condition I was performed for the majority of the fourth calendar quarter of 1998. A summary of real-time air monitoring particulate data is presented in Appendix F.

The Action Level for particulate is  $20 \mu g/m^3$  or 10 percent greater than the upwind concentration. There were no exceedances of the Action Level during the fourth calendar quarter of 1998.

#### 3.2.2 Real-Time Volatile Organic Vapor Monitoring Results

Organic vapor was monitored using an RAE Systems Multigas Monitor Model PGM50-SP. Per the PAMP § 4.4 (IT, 1998a), standard 2-hour interval real-time monitoring as defined for Response Condition I began on July 22, 1998. A summary of real-time air monitoring organic vapor data is presented in Appendix F.

The Action Level for organic vapor is 1.0 part per million by volume (ppmv). All recorded values for organic vapor during this quarter were below the Action Level. No exceedances were recorded for the fourth calendar quarter of 1998.

#### 3.3 Meteorological Data

The Meteorological Monitoring Station consists of a 10-meter tower with mounted instruments and a rain gauge. The tower was constructed at the site to obtain continuously-recorded (on a 5-second basis) local climatic data. See Figure 1-1 for the location of the Meteorological Station. Climatic data included wind speed, horizontal wind direction, ambient temperature, barometric pressure and rainfall. These data were used to evaluate ambient air monitoring results, determine upwind and downwind sampling locations, and calculate actual air volume of samples. Meteorological data are presented as numerical data in Appendix G. Figures 5-1 through 5-4 present wind roses.

Numerical data are included for every day that samples were collected. Data are presented on an hourly average basis and include wind speed, wind direction, ambient temperature, relative humidity, and barometric pressure. (See Appendix G.) Wind speed data were imported to a spreadsheet for calculation of hourly averages of wind speed. The predominant wind direction

(i.e., the direction from which the wind was blowing) was established by the predominant compass direction reported on a 24-hour wind rose.

Wind rose plots are presented for the quarter and for each month of the quarter. (See Figures 5-1 through 5-4.) The wind rose plots provide graphic representations of wind direction, ranges of wind speed, and the percentages of the period for each wind direction and range of wind speed. From these representations, an overview of the predominant wind direction for the period, and therefore the upwind and downwind sample stations (in general), can be inferred.

Figure 5-1 shows the quarterly wind rose plot for the fourth calendar quarter of 1998. As shown on the figure, the predominant wind direction during this quarter was from the west-southwest, though a significant amount of wind was from the southwest direction. This suggests that Sample Stations D and duplicate sample station E were generally downwind stations, and that Sampling Stations A, B, C, and F were generally upwind stations. In general, data recorded during this quarter may be viewed using the easterly side of Parcel B as being downwind and the westerly side as being upwind, although the wind direction may have varied on any particular day. Refer to Appendix G for details regarding a particular day.

Figures 5-2 through 5-4 show monthly wind rose plots for October, November, and December respectively. During the month of October, the prevailing wind direction was from the west-southwest with a notable portion of wind coming from the southwest. In November, the predominant wind direction was from the southwest. During December, the wind was predominantly north-northwest, although there was significant wind from both the northwest and the west-southwest direction.

## 4.0 Maintenance and Operation

All sample collection equipment are visually inspected each day samples are collected. Samplers are cleaned on a scheduled and as-needed basis.

#### 4.1 Real-Time Air Monitoring Equipment

Real-time air monitoring equipment is field calibrated on a daily basis as described below.

#### 4.1.1 Organic Vapor Analyzer

The VOC air monitoring instrument, an RAE Systems Multigas Monitor Model PGM50-SP (RAE), is an organic vapor analyzer (OVA) calibrated using 100 ppmv isobutylene. The calibration of the RAE is performed on a daily basis. The details of the calibration are recorded in the Equipment Maintenance Logbook, including the equipment identification, date and time of calibration, calibration standard, and equipment rating.

#### 4.1.2 Real-Time Aerosol Monitor

The particulate instrument, a Miniram Aerosol Monitor Model PDM-3, is a real-time aerosol monitor (RAM) calibrated using filtered air. The details of the daily calibration are recorded in the Equipment Maintenance Logbook, including the equipment identification, date and time of calibration, calibration standard, and equipment rating.

## 4.2 Integrated Air Sampling Equipment

Integrated air sampling equipment was monitored for flow rate on a weekly basis during sample periods and calibrated if needed as summarized below. Samples collected for concentrations of VOCs are also checked by the analytical laboratory for pressure.

## 4.2.1 Volatile Organic Compounds Sampler

The vacuum/pressure and flow rate is monitored and recorded a minimum of three times during each sample collection period. The final pressure is recorded on Chain-of-Custody. The analytical laboratory measures the vacuum pressure upon receipt, compares the pressures and records the percentage difference. This provides an additional check for the site equipment and efficiency of sample collection vessels. Ambient volatile organic compound samplers were

inspected at each sampling event. Cleaning was conducted as needed, typically monthly.

#### 4.2.2 Semi-Volatile Organic Compounds Sampler

The flow rate on the SVOC sample equipment was monitored and recorded three times during sample collection periods. A flow check using a calibrated orifice standard was conducted on a weekly basis. This assures that the samplers were operating within their respective calibration curves. If a sampler had failed a flow check, samples collected between the time of the failure and the previous flow check would have been considered invalid. This did not occur during this quarter.

A multipoint flow check and calibration was also performed after motor brushes were changed. Motor brushes were changed after 500 hours of use. This equates to approximately every two months when the samplers are operated on a 3-day schedule.

#### 4.2.3 Metals and Particulate Sampler

The flow rate was monitored three times during each sample period on the particulate sample equipment. A sample flow check using a calibrated orifice standard was performed on a weekly basis. This assures that the samplers were operating within their respective calibration curves. If a sampler had failed a flow check, samples collected between the time of the failure and the previous flow check would have been considered invalid.

The particulate sample equipment was also calibrated after motor brushes were changed. Motor brushes were changed after 500 hours of use. This equates to approximately every two months when the samplers are operated on a 3-day schedule.

#### 4.2.4 Meteorological Instrumentation

Meteorological instruments were disassembled and lubricated approximately every 6 weeks. This schedule was adopted as standard operating procedure to prevent corrosion from airborne salt and high humidity.

On November 12, 1998, the temperature sensor on the meteorological tower began malfunctioning, apparently due to the buildup of salt on the sensor, caused by a recurring dense fog. A man-lift was ordered and the sensor was cleaned on November 17, 1998. This action

appeared to solve the problem.

On December 1, 1998, the meteorological software was corrupted and therefore inoperable. A backup copy of the software was ordered from the vendor and installed on December 18, 1998. The software installer was stored on-site to correct any further problems which may arise.

On December 8, 1998, the temperature sensor on the meteorological tower began malfunctioning again. Due to the fact that the sensor had malfunctioned during the previous month, it was determined that the sensor should be replaced. A new sensor was ordered and installed on December 18, 1998. The new sensor functioned correctly and appeared to solve the problem.

On December 29, 1998, the temperature sensor began malfunctioning again. Upon close inspection of the temperature sensor and the connections, it was noted that the line connecting the temperature sensor and the data logger was frayed. This line was subsequently repaired on December 31, 1998, and this action appeared to solve the problem.

During these periods when the temperature sensor and meteorological software were not functioning properly, all meteorological data was obtained from the World Wide Web site (http://www.nws.mbay.net) maintained by the National Weather Service. These changes in the data source did not significantly affect the objective of the PAMP (IT, 1998a) and are considered negligible. The meteorological station has provided accurate and reliable data as required for monitoring purposes. To maximize the quality of the data base, additional operational and equipment options will continue to be investigated to prevent occasional equipment malfunction.

## 5.0 Quality Assurance Performance Audit

Perimeter air monitoring performance and system audits are required by the PAMP (IT, 1998a) on a bi-annual basis. IT's Air Quality Services personnel audited air monitoring procedures and equipment performances on August 13 and 14, 1998. Results of the audit summarized in the Quality Assurance Performance Audit, Hunters Point Shipyards, Superfund Remediation Site, Air Monitoring Network (IT, 1998b) and submitted to the Navy. The audit included a review of the calibration, sampling, and data collection procedures, and testing of air sampling and meteorological data collection instruments. Equipment performance and sampling procedures were satisfactory.

## 6.0 Modifications of Procedures

The purpose of this section is to document any field conditions that dictated changes to sampling and analytical protocols outlined in the PAMP (IT, 1998a). These alterations were implemented to improve or clarify the perimeter air monitoring program as work at the site proceeded.

#### 6.1 Field Implementation to Procedures

The following adjustments to procedures were implemented as practical measures.

#### 6.1.1 Air Monitoring Log Book

References are made in the PAMP (IT, 1998a) to an Air Monitoring Log Book. This information is stored in files rather than a binder, because of the volume of documentation generated.

#### 6.1.2 Meteorological Data Access

Section 5.0 of the PAMP (IT, 1998a) states that in the case of meteorological monitoring station malfunctions, meteorological data will be obtained from the San Francisco Airport. In practice, when necessary, meteorological data was obtained from the World Wide Web (http://www.nws.mbay.net)due to the accessibility of the information.

#### 6.1.3 Sample Station Identification

Section 7.1 suggests that samplers be identified numerically (i.e., 01 through 05, with station 4Q being the duplicate station). Since numerical data are often associated with stations, sample stations were assigned alpha identification (i.e., A through F, with station E being the duplicate station) to reduce the potential for confusion.

## 6.1.4 Chain-of-Custody Protocol

Subsection 7.2.1 references a standard Chain-of-Custody procedure that is typically used for environmental sample collection. For efficiency and standardization, the procedure was implemented as follows:

- Every sample is assigned a unique identification number that is entered on the Chain-of-Custody form.
- Field Data Collection forms are used to record all pertinent information in the field.

• Data from the Field Data Collection forms are entered into spreadsheets, where automatic calculations are performed and an electronic Chain-of-Custody is produced.

### 7.0 References

IT Corporation, 1998a, "Perimeter Air Monitoring Plan, Parcel B Remedial Action, Hunters Point Naval Shipyard, San Francisco, California", Revision 1, 1998a.

IT Corporation, 1998b, "Quality Assurance Performance Audit, Hunters Point Shipyards, Superfund Rememediation Site, Air Monitoring Network", August.

Tetra Tech EM Inc., 1998, "Draft Final Revision 1, Parcel B, Remedial Design Document II, Technical Specifications/Drawings, Remedial Action, Hunters Point Shipyard, San Francisco, California", 1998.

Title 40 Code of Federal Regulations (CFR) 50, 1987, "Reference Method for the Determination of Suspended Particulate Matter in the Atmosphere (High-Volume Method)", Appendix B, July.

Title 40 CFR 51, 1987, "Reference Method for Detection of Lead in Suspended Particulate Matter Collected from Ambient Air", Appendix G, July.

US EPA, 1988a, "Determination of Benzo(a)pyrene[B(a)P] and Other Polynuclear Aromatic Hydrocarbons (PAHs) in Ambient Air Using Gas Chromatographic (GC) and High Performance Liquid Chromatographic (HPLC) Analysis", Method T013.

U.S. EPA, 1996b "Gas Chromatography with Electron Capture Detection," EPA SW-846, Method 8081, Revision 3, Washington D.C., December.

US EPA, 1984c, "Method for the Determination of Organochlorine Pesticides and Polychlorinated Biphenyls in Ambient Air", Method T0-4, Revision 1.0, April.

US EPA, 1988d, "Method for the Determination of Volatile Organic Compounds (VOC) in Ambient Air Using SUMMA® Passivated Canister Sampling and Gas Chromatographic Analysis", Revision 1.0, Method T014, June.

U.S. Public Health Service, Agency for Toxic Substances and Disease Registry, Division of Health Assessment and Consultation, Public Health Assessment, Naval Station Treasure Island Hunter Point Annex, San Francisco County, California, September 30, 1994. <u>CERCLIS NO. CA1170090087</u>, http://atsdr1.atsdr.cdc.gov:8080/HAC/PHA/treasure/tre\_tre.html

## **TABLES**

|            | Date    | Date      | Data Ctar                | D. St. O.                  |   |
|------------|---------|-----------|--------------------------|----------------------------|---|
| Excavation | Started | Completed | Date Step<br>Out Started | Date Step Out<br>Completed | Soil Contaminant Target Compounds   |
| IR-06      |         |           |                          |                            |   |
| A-1        | NA      | NA        | 11/17/98                 | NA                         | Antimony, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, benzene, tetrachloroethylene, Aroclor-1260, TPH-diesel                          |
| IR-07      |         |           |                          |                            |   |
| 7-1        | NA      | NA        | NA                       | 11/16/98                   | Arsenic, beryllium, copper, lead, zinc, 4,4'-DDE, 4,4'DDT, benzo(b)fluoranthene, benzo(k)fluoranthene, benzo(a)pyrene, benzo(a)anthracene   |
| 7-2        | NA      | NA        | NA                       | 10/07/98                   | Antimony, beryllium, aldrin, benzo(a)anthracene, chrysene, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT   |
| 7-3        | NA      | NA        | NA                       | 12/08/98                   | Beryllium, copper, lead, zinc, Aroclor-1260, benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, chrysene, benzo(k)fluoranthene, dibenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene |
| 7-4        | NA      | NA        | NA                       | 12/08/98                   | Copper, lead, Aroclor-1260, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, bis(2)ethylhexyl, phthalate, indeno(1,2,3-cd)pyrene   |
| 7-5        | NA      | NA        | 10/08/98                 | 12/14/98                   | Beryllium, copper, lead, mercury, zinc, benzo(a)anthracene, benzo(a)pyrene, Aroclor-1260, benoz(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, chrysene, TPH-diesel    |
| B0136      | NA      | NA        | NA                       | 11/05/98                   | 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluranthene, benzo(k)fluoranthene   |
| B0536      | NA      | NA        | 10/14/98                 | 12/15/98                   | Beryllium, Aroclor-1260, TPH-gasoline   |

| Excavation | Date<br>Started | Date<br>Completed | Date Step<br>Out Started | Date Step Out<br>Completed | Soil Contaminant Target Compounds   |
|------------|-----------------|-------------------|--------------------------|----------------------------|---|
| B0628      | NA              | NA                | NA                       | 11/10/98                   | Beryllium, Aroclor-1260   |
| B0632      | NA              | NA                | NA                       | 11/25/98                   | Arsenic, beryllium, TPH-diesel  |
| B0636      | NA              | NA                | 11/05/98                 | 11/05/98                   | Arsenic, lead   |
| B0933      | NA              | NA                | 11/05/98                 | 11/05/98                   | Arcolor-1254  |
| B1036      | NA              | NA                | NA                       | 10/14/98                   | Beryllium, aldrin, 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, benoz(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, debenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, chrysene, TPH-diesel |
| B1127      | NA              | NA                | NA                       | 10/21/98                   | Beryllium, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene, dibenzo(a,h)anthracene, benzo(k)fluoranthene, TPH-diesel   |
| B1128      | NA              | NA                | NA                       | 11/02/98                   | N-nitrosodipropylamine, bis(2-ethylhexyl)phthalate, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene  |
| B1132      | NA              | NA                | NA                       | 11/24/98                   | Copper, TPH-diesel  |
| B1324      | NA              | NA                | NA                       | NA                         | Antimony, benzo(a)antracene, benzo(b)fluoranthene, chrysene, TPH-diesel   |
| B1422      | NA              | NA                | 10/07/98                 | 10/28/98                   | Beryllium, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, chrysene   |
| IR-10      | 0               |                   |                          | *****                      |   |
| B2725      | 12/3/98         | 12/3/98           | 12/23/98                 | 12/23/98                   | Trichloroethene   |

(Continued)

| Excavation | Date<br>Started | Date<br>Completed | Date Step<br>Out Started | Date Step Out<br>Completed | Soil Contaminant Target Compounds  |
|------------|-----------------|-------------------|--------------------------|----------------------------|--|
| B2925      | 11/30/98        | 11/30/98          | NA                       | NA                         | Arsenic  |
| B3125      | 12/3/98         | 12/3/98           | NA                       | NA                         | Benzo(a)anthracene, benzo(b)fluoranthene, chrysene   |
| B3425      | 11/30/98        | 11/30/98          | NA                       | NA                         | Beryllium, manganese   |
| B3622      | 11/19/98        | 11/19/98          | 12/10/98                 | 12/17/98                   | Manganese, Aroclor-1260, TPH-diesel  |
| B3625      | 12/4/98         | 12/4/98           | NA                       | NA                         | Beryllium  |
| IR-18      |                 |                   |                          |                            |  |
| 18-2       | NA              | NA                | NA                       | 10/05/98                   | Lead, zinc, Aroclor-1254, Aroclor-1260, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, debenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, bis(2-ethylhexyl)phthalate, TPH-disel, TPH-motor oil |
| 18-4       | NA              | NA                | 10/21/98                 | 12/15/98                   | Aroclor-1254, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, debenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, Aroclor-1260   |
| B0241      | NA              | NA                | 10/21/98                 | 12/15/98                   | Aroclor-1254, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, debenzo(a,h)anthracene, indeno(1,2,3-cd)pyrene, Aroclor-1260   |
| B0337      | 11/16/98        | 11/16/98          | 12/04/98                 | 12/20/98                   | Lead, Aroclor-1260   |
| B0638      | NA              | NA                | NA                       | 12/23/98                   | 4,4'-DDD, 4,4'-DDT, benzo(a)pyrene, benzo(b)fluoranthene, indeno(1,2,3-cd)pyrene   |

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| Excavation | Date<br>Started | Date<br>Completed | Date Step<br>Out Started | Date Step Out<br>Completed | Soil Contaminant Target Compounds  |
|------------|-----------------|-------------------|--------------------------|----------------------------|--|
| B1138      | NA              | NA                | 10/06/98                 | 11/03/98                   | Beryllium, TPH-diesel  |
| IR-20      |                 |                   |                          |                            |  |
| 20-1       | 11/18/98        | 11/18/98          | 12/10/98                 | 12/10/98                   | Arsenic, copper, manganese   |
| 20-2       | 11/09/98        | 11/09/98          | 11/20/98                 | 12/16/98                   | Mercury, Aroclor-1260  |
| 20/3       | 11/09/98        | 11/09/98          | NA                       | NA                         | Lead, Aroclor-1260   |
| B4217      | 11/11/98        | 11/11/98          | NA                       | NA                         | Aluminum, manganese  |
| B4419      | 12/07/98        | 12/07/98          | NA                       | NA                         | Copper, zinc, Aroclor-1260, bis(2-ethylhexyl)phthalate   |
| B4420      | 11/09/98        | 11/09/98          | 12/14/98                 | 12/14/98                   | Aroclor-1260   |
| IR-23      |                 |                   |                          |                            |  |
| 23-1       | 12/15/98        | 12/15/98          | NA                       | NA                         | Coper, zinc, TPH-diesel, TPH-motor oil   |
| 23-2       | 11/25/98        | 11/25/98          | 12/15/98                 | 12/15/98                   | Beryllium, manganese   |
| 23-3       | 12/15/98        | 12/15/98          | NA                       | NA                         | Copper, Aroclor-1260, benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene, TPH-diesel, TPH-gasoline |
| EE-02      | 11/16/98        | 12/20/98          | 12/28/98                 | 12/28/98                   |  |
| IR-24      |                 |                   |                          |                            |  |

| Excavation | Date<br>Started | Date<br>Completed | Date Step<br>Out Started | Date Step Out<br>Completed | Soil Contaminant Target Compounds  |
|------------|-----------------|-------------------|--------------------------|----------------------------|--|
| 24-1       | 11/11/98        | 11/11/98          | NA                       | NA                         | Arsenic, manganese, TPH-diesel   |
| 24-2       | 11/11/98        | 11/11/98          | 12/15/98                 | 12/15/98                   | Aroclor-1260   |
| 24-5       | 11/16/98        | 11/16/98          | NA                       | NA                         | Manganese  |
| 24-6       | 11/10/98        | 11/10/98          | 12/10/98                 | 12/10/98                   | Arsenic, barium, beryllium, copper, manganese  |
| 24/7       | 11/10/98        | 11/10/98          | 12/04/98                 | 12/04/98                   | Mercury  |
| 24-8       | 11/10/98        | 11/10/98          | 12/04/98                 | 12/04/98                   | Arsenic, beryllium, copper, manganese  |
| 24-9       | 12/23/98        | NA                | NA                       | NA                         | Manganese, trichloroethene, TPH-gasoline, TPH-diesel   |
| B2414      | 11/12/98        | 11/12/98          | 12/01/98                 | 12/15/98                   | Aroclor-1260, TPH-diesel   |
| B2614      | 11/12/98        | 11/12/98          | NA                       | NA                         | Benzo(a)anthracene, benzo(a)pyrene, benzo(b)   |
| B2915      | 11/12/98        | 11/12/98          | 11/25/98                 | 12/18/98                   | Aroclor-1260, TPH-diesel   |
| B2918      | 11/19/98        | 11/19/98          | 12/02/98                 | 12/02/98                   | Benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, indeno(1,2,3-cd)pyrene   |
| B3114      | 11/13/98        | 11/13/98          | 12/10/98                 | 12/10/98                   | Benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene   |
| B3514      | 11/13/98        | 11/13/98          | NA                       | NA                         | Cyanide, zinc, TPH-diesel  |
| B3614      | 11/16/98        | 11/16/98          | NA                       | NA                         | Benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, indeno(a,2,3-cd)pyrene |

| Excavation | Date<br>Started | Date<br>Completed | Date Step<br>Out Started | Date Step Out<br>Completed | Soil Contaminant Target Compounds                                       |
|------------|-----------------|-------------------|--------------------------|----------------------------|---|
| B3718      | 11/19/98        | 11/19/98          | 12/10/98                 | 12/10/98                   | Aluminum, manganese, chrysene, TPH-diesel                               |
| B3822      | 11/19/98        | 11/19/98          | 12/03/98                 | 12/03/98                   | Zinc, Aroclor-1254, Aroclor-1260, TPH-diesel                            |
| B3914      | 11/16/98        | 11/16/98          | 12/14/98                 | 12/14/98                   | Coper, manganese, chrysene  |
| B4017      | 12/02/98        | 12/02/98          | NA                       | NA                         | Bis(2-ethylhexyl)phthalate  |
| B4113      | 12/07/98        | 12/07/98          | NA                       | NA                         | Benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, chrysene      |
| IR-26      |                 |                   |                          |                            |   |
| B4315      | 11/16/98        | 11/16/98          | NA                       | NA                         | Benzo(a)anthracene, chrysene, bis(s-ethylhexyl)phthalate, TPH-motor oil |
| B4417      | 11/16/98        | 11/16/98          | 12/18/98                 | NA                         | Copper  |
| B4715      | 11/16/98        | 11/18/98          | NA                       | NA                         | Arsenic, manganese  |
| B4815      | 11/16/98        | 11/18/98          | 12/01/98                 | NA                         | Benzo(a)anthracene, benzo(k)fluoranthene                                |
| IR-42      |                 |                   |                          | **                         |   |
| 42-1       | 11/17/98        | 11/19/98          | 12/07/98                 | 12/07/98                   | Manganese, aluminum, arsenic  |
| B3530      | 12/07/98        | 12/07/98          | NA                       | NA                         | Manganese, aluminum   |
| IR-60      |                 |                   |                          |                            |   |

| Excavation | Date<br>Started | Date<br>Completed | Date Step<br>Out Started | Date Step Out<br>Completed | Soil Contaminant Target Compounds  |  |
|------------|-----------------|-------------------|--------------------------|----------------------------|--|--|
| 60-1       | 11/17/98        | 11/22/98          | 12/15/98                 | 12/15/98                   | Arsenic, manganese, benzo0a_anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene |  |
| 60-2       | 09/09/98        | 09/16/98          | 10/28/98                 | 12/28/98                   | Arsenic, cadmium, copper, zinc, TPH-diesel   |  |
| B1816      | 08/27/98        | 08/27/98          | NA                       | NA                         | Zinc, TPH-diesel   |  |
| IR-61      |                 |                   |                          |                            |  |  |
| B2225      | 08/20/98        | 08/20/98          | NA                       | NA                         | Aroclor-1260   |  |
| B2425      | 08/26/98        | 09/14/98          | NA                       | NA                         | Arsenic, TPH-diesel  |  |
| IR-62      | -               |                   |                          |                            |  |  |
| B2030      | 08/26/98        | 10/08/98          | NA                       | NA                         | TPH-diesel, TPH-gasoline   |  |

# Table 3-2 Air Quality Target Compounds and Action Level Criteria for Integrated Sampling D.O. Number 0109 Hunters Point Naval Shipyard San Francisco, California

| Contaminant           | Action Level<br>Criteria<br>(μg/m³) | Averaging Period  | Pollutant Type        |
|-----------------------|-------------------------------------|-------------------|-----------------------|
| Metals (Particulates) |                                     |                   |                       |
| aluminum              | 150°                                | 24-hour TWA       | non-carcinogen        |
| antimony              | 5ª                                  | 24-hour TWA       | non-carcinogen        |
| arsenic               | 0.014                               | project duration  | carcinogen (known)    |
| beryllium             | 0.03                                | project duration  | carcinogen (probable) |
| copper                | 10°                                 | 24-hour TWA       | non-carcinogen        |
| lead                  | 1.5°                                | quarterly average | non-carcinogen        |
| manganese             | 0.05 <sup>b</sup>                   | 24-hour TWA       | non-carcinogen        |
| mercury               | 0.3 <sup>b</sup>                    | 24-hour TWA       | non-carcinogen        |
| nickel                | 10°                                 | 24-hour TWA       | non-carcinogen        |
| vanadium              | 0.5 <sup>b</sup>                    | 24-hour TWA       | non-carcinogen        |
| zinc                  | 1050 <sup>d</sup>                   | 24-hour TWA       | non-carcinogen        |
| VOCs                  |                                     |                   | =                     |
| benzene               | 0.65 <sup>j</sup>                   | project duration  | carcinogen (known)    |
| 1,2-dichloroethane    | 3                                   | project duration  | carcinogen (probable) |
| 1,2-dichloroethene    | 1.4                                 | project duration  | carcinogen (possible) |
| tetrachloroethene     | 35 <sup>d</sup>                     | 24-hour TWA       | non-carcinogen        |
| xylene                | 4350°                               | 24-hour TWA       | non-carcinogen        |
| OCPs/PCBs             |                                     |                   |                       |
| aldrin                | 0.014                               | project duration  | carcinogen (probable) |
| 4,4'-DDD              | 0.0129                              | project duration  | carcinogen (probable) |

#### Table 3-2 Air Quality Target Compounds and Action Level Criteria for Integrated Sampling D.O. Number 0109

#### Hunters Point Naval Shipyard San Francisco, California (Continued)

| Contaminant                     | Action Level<br>Criteria<br>(μg/m³) | Averaging Period | Pollutant Type        |  |
|---------------------------------|-------------------------------------|------------------|-----------------------|--|
| 4,4'-DDE                        | 0.0099                              | project duration | carcinogen (probable) |  |
| 4,4'-DDT                        | 0.7                                 | project duration | carcinogen (probable) |  |
| PCBs (Aroclor 1260, 1254, 1242) | 0.01                                | project duration | carcinogen (probable) |  |
| PAHs (SVOCs)                    |                                     | •                |                       |  |
| benzo(a)anthracene              | 0.3 <sup>h</sup>                    | project duration | carcinogen (probable) |  |
| benzo(a)pyrene                  | 0.04 <sup>h</sup>                   | project duration | carcinogen (probable) |  |
| benzo(b)fluoranthene            | 0.3 <sup>h</sup>                    | project duration | carcinogen (probable) |  |
| benzo(k)fluoranthene            | 0.8 <sup>h</sup>                    | project duration | carcinogen (probable) |  |
| bis(2-ethylheyxl)phthalate      | 0.018º                              | project duration | carcinogen            |  |
| chrysene                        | 0.14                                | project duration | carcinogen            |  |
| dibenzo(a,h)anthracene          | 0.04 <sup>h</sup>                   | project duration | carcinogen (probable) |  |
| ideno(1,2,3-cd)pyrene           | 0.14 <sup>h</sup>                   | project duration | carcinogen            |  |
| n-nitrosodiprpylamine           | 0.04 <sup>g</sup>                   | project duration | carcinogen            |  |

#### Notes:

- a) No inhalation RfD, RfD, or carcinogenic slope factor. Also, no OSHA PEL. Based on NIOSH REL/100.
- b) Based on RfC.
- c) No inhalation Rfd or RfC. Based on OSHA PEL/100 for criteria.
- d) No inhalation RfD or RfC. Criteria based on oral RfC, assuming 20 m³/day inhalation rate and 100% absorption.
- e) National Ambient Air Quality Standard.
- f) No current RfC or slope factor. Based on slope factor value withdrawn from HEAST tables in Ref. 1.
- g) Calculated by using the oral carcinogenic slope factor and assuming 20 m³/day inhalation rate and 100% absorption.
- h) Calculated from inhalation slope factor listed in EPA 1993, assuming 20 m³/day inhalation rate and 100% absorption.
- I) No inhalation RfD or OSHA PEL. Used OSHA PEL for coke oven emissions divided by a factor of 100.
- j) This is the minimum detection limit for benzene using the specified T0-14 method which is higher than the action level criteria in Specification 01420 of 0.1 μg/m³.

Table 3-3
Laboratory Analytical Results
Volatile Organic Compounds - Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound           | Station | Mean<br>Concentration | Maximum Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of<br>Samples |
|--------------------|---------|-----------------------|-----------------------|-----------------------|--------------------|----------------------|
| 1,1-DICHLOROETHENE | Α       | 0.200                 | 0.200                 | 0.000                 | 0.000              | 19                   |
| 1,1-DICHLOROETHENE | В       | 0.200                 | 0.200                 | 0.000                 | 0.000              | 19                   |
| 1,1-DICHLOROETHENE | С       | 0.200                 | 0.200                 | 0.000                 | 0.000              | 19                   |
| 1,1-DICHLOROETHENE | D       | 0.200                 | 0.200                 | 0.000                 | 0.000              | 19                   |
| 1,1-DICHLOROETHENE | E       | 0.200                 | 0.200                 | 0.000                 | 0.000              | 12                   |
| 1,1-DICHLOROETHENE | F       | 0.200                 | 0.200                 | 0.000                 | 0.000              | 19                   |
| 1,1-DICHLOROETHENE | FB      | 0.200                 | 0.200                 | 0.000                 | 0.000              | 12                   |
| 1,2-DICHLOROETHANE | Α       | 0.200                 | 0.200                 | 0.000                 | 0.000              | 19                   |
| 1,2-DICHLOROETHANE | В       | 0.200                 | 0.200                 | 0.000                 | 0.000              | 19                   |
| 1,2-DICHLOROETHANE | С       | 0.245                 | 1.050                 | 0.195                 | 0.074              | 19                   |
| 1,2-DICHLOROETHANE | D       | 0.200                 | 0.200                 | 0.000                 | 0.000              | 19                   |
| 1,2-DICHLOROETHANE | E       | 0.200                 | 0.200                 | 0.000                 | 0.000              | 12                   |
| 1,2-DICHLOROETHANE | F       | 0.200                 | 0.200                 | 0.000                 | 0.000              | 19                   |
| 1,2-DICHLOROETHANE | FB      | 0.200                 | 0.200                 | 0.000                 | 0.000              | 12                   |

Table 3-3
Laboratory Analytical Results
Volatile Organic Compounds - Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound          | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|-------------------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| BENZENE           | Α       | 1.956                 | 3.550                    | 0.857                 | 0.315              | 20                |
| BENZENE           | В       | 1.827                 | 3.550                    | 0.907                 | 0.333              | 20                |
| BENZENE           | С       | 1.943                 | 3.510                    | 0.862                 | 0.317              | 20                |
| BENZENE           | D       | 1.630                 | 3.230                    | 0.737                 | 0.271              | 20                |
| BENZENE           | E       | 1.626                 | 3.160                    | 0.809                 | 0.369              | 13                |
| BENZENE           | F       | 1.732                 | 3.550                    | 0.752                 | 0.277              | 20                |
| BENZENE           | FB      | 0.150                 | 0.150                    | 0.000                 | 0.000              | 13                |
| TETRACHLOROETHENE | Α       | 0.509                 | 1.900                    | 0.409                 | 0.154              | 19                |
| TETRACHLOROETHENE | В       | 0.382                 | 0.950                    | 0.138                 | 0.052              | 19                |
| TETRACHLOROETHENE | С       | 0.382                 | 0.950                    | 0.138                 | 0.052              | 19                |
| TETRACHLOROETHENE | D       | 0.592                 | 4.000                    | 0.853                 | 0.322              | 19                |
| TETRACHLOROETHENE | E       | 0.433                 | 0.950                    | 0.199                 | 0.095              | 12                |
| TETRACHLOROETHENE | F       | 0.455                 | 1.220                    | 0.259                 | 0.098              | 19                |
| TETRACHLOROETHENE | FB      | 0.350                 | 0.350                    | 0.000                 | 0.000              | 12                |

Table 3-3
Laboratory Analytical Results
Volatile Organic Compounds - Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|----------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| XYLENE   | Α       | 5.059                 | 11.640                   | 2.896                 | 1.093              | 19                |
| XYLENE   | В       | 4.486                 | 11.590                   | 2.840                 | 1.072              | 19                |
| XYLENE   | C       | 10.375                | 102.900                  | 22.577                | 8.520              | 19                |
| XYLENE   | D       | 3.954                 | 10.330                   | 2.691                 | 1.015              | 19                |
| XYLENE   | E       | 3.690                 | 8.770                    | 2.735                 | 1.299              | 12                |
| XYLENE   | F       | 4.146                 | 10.290                   | 2.309                 | 0.871              | 19                |
| XYLENE   | FB      | 0.200                 | 0.200                    | 0.000                 | 0.000              | 12                |

Table 3-4
Laboratory Analytical Results
Volatile Organic Compounds - Non-Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound           | Station        | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|--------------------|----------------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| 1,1-DICHLOROETHENE | Α              | 0.200                 | 0.200                    | 0.000                 | 0.000              | 19                |
| 1,1-DICHLOROETHENE | В              | 0.200                 | 0.200                    | 0.000                 | 0.000              | 19                |
| 1,1-DICHLOROETHENE | С              | 0.200                 | 0.200                    | 0.000                 | 0.000              | 19                |
| 1,1-DICHLOROETHENE | D <sub>e</sub> | 0.200                 | 0.200                    | 0.000                 | 0.000              | 19                |
| 1,1-DICHLOROETHENE | E              | 0.200                 | 0.200                    | 0.000                 | 0.000              | 12                |
| 1,1-DICHLOROETHENE | F              | 0.200                 | 0.200                    | 0.000                 | 0.000              | 19                |
| 1,1-DICHLOROETHENE | FB             | 0.200                 | 0.200                    | 0.000                 | 0.000              | 12                |
| 1,2-DICHLOROETHANE | Α              | 0.200                 | 0.200                    | 0.000                 | 0.000              | 19                |
| 1,2-DICHLOROETHANE | В              | 0.200                 | 0.200                    | 0.000                 | 0.000              | 19                |
| 1,2-DICHLOROETHANE | С              | 0.245                 | 1.050                    | 0.195                 | 0.074              | 19                |
| 1,2-DICHLOROETHANE | D              | 0.200                 | 0.200                    | 0.000                 | 0.000              | 19                |
| 1,2-DICHLOROETHANE | E              | 0.200                 | 0.200                    | 0.000                 | 0.000              | 12                |
| 1,2-DICHLOROETHANE | F              | 0.200                 | 0.200                    | 0.000                 | 0.000              | 19                |
| 1,2-DICHLOROETHANE | FB             | 0.200                 | 0.200                    | 0.000                 | 0.000              | 12                |

Table 3-4
Laboratory Analytical Results
Volatile Organic Compounds - Non-Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound          | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|-------------------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| BENZENE           | Α       | 1.956                 | 3.550                    | 0.857                 | 0.315              | 20                |
| BENZENE           | В       | 1.827                 | 3.550                    | 0.907                 | 0.333              | 20                |
| BENZENE           | C       | 1.943                 | 3.510                    | 0.862                 | 0.317              | 20                |
| BENZENE           | D       | 1.630                 | 3.230                    | 0.737                 | 0.271              | 20                |
| BENZENE           | E       | 1.626                 | 3.160                    | 0.809                 | 0.369              | 13                |
| BENZENE           | F       | 1.732                 | 3.550                    | 0.752                 | 0.277              | 20                |
| BENZENE           | FB      | 0.150                 | 0.150                    | 0.000                 | 0.000              | 13                |
| TETRACHLOROETHENE | Α       | 0.509                 | 1.900                    | 0.409                 | 0.154              | 19                |
| TETRACHLOROETHENE | В       | 0.382                 | 0.950                    | 0.138                 | 0.052              | 19                |
| TETRACHLOROETHENE | C       | 0.382                 | 0.950                    | 0.138                 | 0.052              | 19                |
| TETRACHLOROETHENE | D       | 0.592                 | 4.000                    | 0.853                 | 0.322              | 19                |
| TETRACHLOROETHENE | E       | 0.433                 | 0.950                    | 0.199                 | 0.095              | 12                |
| TETRACHLOROETHENE | F       | 0.455                 | 1.220                    | 0.259                 | 0.098              | 19                |
| TETRACHLOROETHENE | FB      | 0.350                 | 0.350                    | 0.000                 | 0.000              | 12                |
|                   |         |                       |                          |                       |                    |                   |

Table 3-4
Laboratory Analytical Results
Volatile Organic Compounds - Non-Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|----------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| XYLENE   | Α       | 5.059                 | 11.640                   | 2.896                 | 1.093              | 19                |
| XYLENE   | В       | 4.486                 | 11.590                   | 2.840                 | 1.072              | 19                |
| XYLENE   | C       | 10.375                | 102.900                  | 22.577                | 8.520              | 19                |
| XYLENE   | D       | 3.954                 | 10.330                   | 2.691                 | 1.015              | 19                |
| XYLENE   | E       | 3.690                 | 8.770                    | 2.735                 | 1.299              | 12                |
| XYLENE   | F       | 4.146                 | 10.290                   | 2.309                 | 0.871              | 19                |
| XYLENE   | FB      | 0.200                 | 0.200                    | 0.000                 | 0.000              | 12                |

Table 3-5
Laboratory Analytical Results
Volatile Organic Compounds - Total
(Measured in ug/m3)
Fourth Quarter 1998

| Compound           | Station | Mean Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of<br>Samples |
|--------------------|---------|--------------------|--------------------------|-----------------------|--------------------|----------------------|
| 1,1-DICHLOROETHENE | Α       | 0.200              | 0.200                    | 0.000                 | 0.000              | 27                   |
| 1,1-DICHLOROETHENE | В       | 0.200              | 0.200                    | 0.000                 | 0.000              | 27                   |
| 1,1-DICHLOROETHENE | C       | 0.200              | 0.200                    | 0.000                 | 0.000              | 26                   |
| 1,1-DICHLOROETHENE | D       | 0.200              | 0.200                    | 0.000                 | 0.000              | 27                   |
| 1,1-DICHLOROETHENE | E       | 0.200              | 0.200                    | 0.000                 | 0.000              | 16                   |
| 1,1-DICHLOROETHENE | F       | 0.200              | 0.200                    | 0.000                 | 0.000              | 27                   |
| 1,1-DICHLOROETHENE | FB      | 0.200              | 0.200                    | 0.000                 | 0.000              | 17                   |
| 1,2-DICHLOROETHANE | Α       | 0.200              | 0.200                    | 0.000                 | 0.000              | 27                   |
| 1,2-DICHLOROETHANE | В       | 0.200              | 0.200                    | 0.000                 | 0.000              | 27                   |
| 1,2-DICHLOROETHANE | С       | 0.233              | 1.050                    | 0.167                 | 0.054              | 26                   |
| 1,2-DICHLOROETHANE | D       | 0.200              | 0.200                    | 0.000                 | 0.000              | 27                   |
| 1,2-DICHLOROETHANE | E       | 0.200              | 0.200                    | 0.000                 | 0.000              | 16                   |
| 1,2-DICHLOROETHANE | F       | 0.200              | 0.200                    | 0.000                 | 0.000              | 27                   |
| 1,2-DICHLOROETHANE | FB      | 0.200              | 0.200                    | 0.000                 | 0.000              | 17                   |

Table 3-5
Laboratory Analytical Results
Volatile Organic Compounds - Total
(Measured in ug/m3)
Fourth Quarter 1998

| Compound          | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|-------------------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| BENZENE           | Α       | 2.082                 | 3.550                    | 0.840                 | 0.257              | 29                |
| BENZENE           | В       | 2.037                 | 3.550                    | 0.904                 | 0.276              | 29                |
| BENZENE           | C       | 2.185                 | 5.270                    | 1.044                 | 0.324              | 28                |
| BENZENE           | D       | 1.872                 | 3.260                    | 0.824                 | 0.252              | 29                |
| BENZENE           | E       | 1.721                 | 3.190                    | 0.823                 | 0.328              | 17                |
| BENZENE           | F       | 1.928                 | 3.550                    | 0.777                 | 0.237              | 29                |
| BENZENE           | FB      | 0.150                 | 0.150                    | 0.000                 | 0.000              | 19                |
| TETRACHLOROETHENE | Α       | 0.458                 | 1.900                    | 0.343                 | 0.107              | 28                |
| TETRACHLOROETHENE | В       | 0.407                 | 1.360                    | 0.218                 | 0.068              | 28                |
| TETRACHLOROETHENE | С       | 0.372                 | 0.950                    | 0.115                 | 0.037              | 27                |
| TETRACHLOROETHENE | D       | 0.514                 | 4.000                    | 0.706                 | 0.219              | 28                |
| TETRACHLOROETHENE | E       | 0.412                 | 0.950                    | 0.175                 | 0.072              | 16                |
| TETRACHLOROETHENE | F       | 0.651                 | 6.780                    | 1.221                 | 0.379              | 28                |
| TETRACHLOROETHENE | FB      | 0.350                 | 0.350                    | 0.000                 | 0.000              | 18                |

Table 3-5
Laboratory Analytical Results
Volatile Organic Compounds - Total
(Measured in ug/m3)
Fourth Quarter 1998

| Compound is | Station | Mean Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of<br>Samples |
|-------------|---------|--------------------|--------------------------|-----------------------|--------------------|----------------------|
| XYLENE      | Α       | 5.457              | 11.640                   | 2.785                 | 0.866              | 28                   |
| XYLENE      | В       | 4.899              | 11.590                   | 2.580                 | 0.802              | 28                   |
| XYLENE      | С       | 9.154              | 102.900                  | 18.919                | 5.989              | 27                   |
| XYLENE      | D       | 4.297              | 10.330                   | 2.448                 | 0.761              | 28                   |
| XYLENE      | E       | 3.769              | 8.770                    | 2.491                 | 1.024              | 16                   |
| XYLENE      | F       | 4.412              | 10.290                   | 2.141                 | 0.665              | 28                   |
| XYLENE      | FB      | 0.200              | 0.200                    | 0.000                 | 0.000              | 18                   |

Table 3-6
Laboratory Analytical Results
Semi-Volatile Organic Compounds - Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound           | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|--------------------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| BENZO(A)ANTHRACENE | Α       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| BENZO(A)ANTHRACENE | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| BENZO(A)ANTHRACENE | C       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| BENZO(A)ANTHRACENE | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| BENZO(A)ANTHRACENE | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 13                |
| BENZO(A)ANTHRACENE | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| BENZO(A)ANTHRACENE | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 12                |
| BENZO(A)PYRENE     | Α       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| BENZO(A)PYRENE     | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| BENZO(A)PYRENE     | С       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| BENZO(A)PYRENE     | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| BENZO(A)PYRENE     | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 13                |
| BENZO(A)PYRENE     | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| BENZO(A)PYRENE     | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 12                |

Table 3-6
Laboratory Analytical Results
Semi-Volatile Organic Compounds - Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound             | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of<br>Samples |
|----------------------|---------|-----------------------|--------------------------|-----------------------|--------------------|----------------------|
| BENZO(B)FLUORANTHENE | A       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                   |
| BENZO(B)FLUORANTHENE | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                   |
| BENZO(B)FLUORANTHENE | С       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                   |
| BENZO(B)FLUORANTHENE | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                   |
| BENZO(B)FLUORANTHENE | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 13                   |
| BENZO(B)FLUORANTHENE | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                   |
| BENZO(B)FLUORANTHENE | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 12                   |
| BENZO(K)FLUORANTHENE | Α       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                   |
| BENZO(K)FLUORANTHENE | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                   |
| BENZO(K)FLUORANTHENE | C       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                   |
| BENZO(K)FLUORANTHENE | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                   |
| BENZO(K)FLUORANTHENE | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 13                   |
| BENZO(K)FLUORANTHENE | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                   |
| BENZO(K)FLUORANTHENE | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 12                   |

Table 3-6
Laboratory Analytical Results
Semi-Volatile Organic Compounds - Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound                   | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of<br>Samples |
|----------------------------|---------|-----------------------|--------------------------|-----------------------|--------------------|----------------------|
| BIS(2-ETHYLHEXYL)PHTHALATE | Α       | 0.002                 | 0.002                    | 0.000                 | 0.000              | 21                   |
| BIS(2-ETHYLHEXYL)PHTHALATE | В       | 0.002                 | 0.002                    | 0.000                 | 0.000              | 21                   |
| BIS(2-ETHYLHEXYL)PHTHALATE | С       | 0.002                 | 0.010                    | 0.002                 | 0.001              | 21                   |
| BIS(2-ETHYLHEXYL)PHTHALATE | D       | 0.007                 | 0.120                    | 0.026                 | 0.009              | 21                   |
| BIS(2-ETHYLHEXYL)PHTHALATE | E       | 0.005                 | 0.030                    | 0.008                 | 0.004              | 13                   |
| BIS(2-ETHYLHEXYL)PHTHALATE | F       | 0.002                 | 0.002                    | 0.001                 | 0.000              | 21                   |
| BIS(2-ETHYLHEXYL)PHTHALATE | FB      | 0.009                 | 0.090                    | 0.025                 | 0.012              | 12                   |
| CHRYSENE                   | Α       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                   |
| CHRYSENE                   | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                   |
| CHRYSENE                   | С       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                   |
| CHRYSENE                   | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                   |
| CHRYSENE                   | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 13                   |
| CHRYSENE                   | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                   |
| CHRYSENE                   | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 12                   |

Table 3-6
Laboratory Analytical Results
Semi-Volatile Organic Compounds - Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound               | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|------------------------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| DIBENZO(A,H)ANTHRACENE | Α       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| DIBENZO(A,H)ANTHRACENE | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| DIBENZO(A,H)ANTHRACENE | C       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| DIBENZO(A,H)ANTHRACENE | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| DIBENZO(A,H)ANTHRACENE | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 13                |
| DIBENZO(A,H)ANTHRACENE | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| DIBENZO(A,H)ANTHRACENE | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 12                |
| INDENO(1,2,3-CD)PYRENE | Α       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| INDENO(1,2,3-CD)PYRENE | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| INDENO(1,2,3-CD)PYRENE | C       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| INDENO(1,2,3-CD)PYRENE | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| INDENO(1,2,3-CD)PYRENE | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 13                |
| INDENO(1,2,3-CD)PYRENE | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| INDENO(1,2,3-CD)PYRENE | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 12                |

Table 3-6
Laboratory Analytical Results
Semi-Volatile Organic Compounds - Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound               | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|------------------------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| N-NITROSODIPROPYLAMINE | Α       | 0.005                 | 0.006                    | 0.001                 | 0.000              | 21                |
| N-NITROSODIPROPYLAMINE | В       | 0.005                 | 0.006                    | 0.001                 | 0.000              | 21                |
| N-NITROSODIPROPYLAMINE | С       | 0.005                 | 0.006                    | 0.001                 | 0.000              | 21                |
| N-NITROSODIPROPYLAMINE | D       | 0.005                 | 0.006                    | 0.001                 | 0.000              | 21                |
| N-NITROSODIPROPYLAMINE | E       | 0.005                 | 0.006                    | 0.000                 | 0.000              | 13                |
| N-NITROSODIPROPYLAMINE | F       | 0.005                 | 0.006                    | 0.001                 | 0.000              | 21                |
| N-NITROSODIPROPYLAMINE | FB      | 0.005                 | 0.006                    | 0.001                 | 0.000              | 12                |

Table 3-7
Laboratory Analytical Results
Semi-Volatile Organic Compounds - Non-Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound           | Station | Mean Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|--------------------|---------|--------------------|--------------------------|-----------------------|--------------------|-------------------|
| BENZO(A)ANTHRACENE | Α       | 0.001              | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(A)ANTHRACENE | В       | 0.001              | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(A)ANTHRACENE | C       | 0.001              | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(A)ANTHRACENE | D       | 0.001              | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(A)ANTHRACENE | E       | 0.001              | 0.001                    | 0.000                 | 0.000              | 5                 |
| BENZO(A)ANTHRACENE | F       | 0.001              | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(A)ANTHRACENE | FB      | 0.001              | 0.001                    | 0.000                 | 0.000              | 7                 |
| BENZO(A)PYRENE     | Α       | 0.001              | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(A)PYRENE     | В       | 0.001              | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(A)PYRENE     | С       | 0.001              | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(A)PYRENE     | D       | 0.001              | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(A)PYRENE     | E       | 0.001              | 0.001                    | 0.000                 | 0.000              | 5                 |
| BENZO(A)PYRENE     | F       | 0.001              | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(A)PYRENE     | FB      | 0.001              | 0.001                    | 0.000                 | 0.000              | 7                 |

Table 3-7
Laboratory Analytical Results
Semi-Volatile Organic Compounds - Non-Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound             | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|----------------------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| BENZO(B)FLUORANTHENE | Α       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(B)FLUORANTHENE | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(B)FLUORANTHENE | С       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(B)FLUORANTHENE | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(B)FLUORANTHENE | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 5                 |
| BENZO(B)FLUORANTHENE | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(B)FLUORANTHENE | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 7                 |
| BENZO(K)FLUORANTHENE | Α       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(K)FLUORANTHENE | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(K)FLUORANTHENE | С       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(K)FLUORANTHENE | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(K)FLUORANTHENE | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 5                 |
| BENZO(K)FLUORANTHENE | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| BENZO(K)FLUORANTHENE | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 7                 |

Table 3-7
Laboratory Analytical Results
Semi-Volatile Organic Compounds - Non-Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound                   | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard,<br>Deviation | 90th<br>Percentile | Number of Samples |
|----------------------------|---------|-----------------------|--------------------------|------------------------|--------------------|-------------------|
| BIS(2-ETHYLHEXYL)PHTHALATE | Α       | 0.003                 | 0.010                    | 0.003                  | 0.001              | 9                 |
| BIS(2-ETHYLHEXYL)PHTHALATE | В       | 0.003                 | 0.010                    | 0.003                  | 0.001              | 9                 |
| BIS(2-ETHYLHEXYL)PHTHALATE | С       | 0.004                 | 0.010                    | 0.004                  | 0.002              | 9                 |
| BIS(2-ETHYLHEXYL)PHTHALATE | D       | 0.005                 | 0.020                    | 0.006                  | 0.003              | 9                 |
| BIS(2-ETHYLHEXYL)PHTHALATE | E       | 0.002                 | 0.003                    | 0.000                  | 0.000              | 5                 |
| BIS(2-ETHYLHEXYL)PHTHALATE | F       | 0.003                 | 0.010                    | 0.003                  | 0.001              | 9                 |
| BIS(2-ETHYLHEXYL)PHTHALATE | FB      | 0.002                 | 0.002                    | 0.000                  | 0.000              | 7                 |
| CHRYSENE                   | Α       | 0.001                 | 0.001                    | 0.000                  | 0.000              | 9                 |
| CHRYSENE                   | В       | 0.001                 | 0.001                    | 0.000                  | 0.000              | 9                 |
| CHRYSENE                   | С       | 0.001                 | 0.001                    | 0.000                  | 0.000              | 9                 |
| CHRYSENE                   | D       | 0.001                 | 0.001                    | 0.000                  | 0.000              | 9                 |
| CHRYSENE                   | E       | 0.001                 | 0.001                    | 0.000                  | 0.000              | 5                 |
| CHRYSENE                   | F       | 0.001                 | 0.001                    | 0.000                  | 0.000              | 9                 |
| CHRYSENE                   | FB      | 0.001                 | 0.001                    | 0.000                  | 0.000              | 7                 |

Table 3-7
Laboratory Analytical Results
Semi-Volatile Organic Compounds - Non-Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound               | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|------------------------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| DIBENZO(A,H)ANTHRACENE | Α       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| DIBENZO(A,H)ANTHRACENE | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| DIBENZO(A,H)ANTHRACENE | С       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| DIBENZO(A,H)ANTHRACENE | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| DIBENZO(A,H)ANTHRACENE | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 5                 |
| DIBENZO(A,H)ANTHRACENE | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| DIBENZO(A,H)ANTHRACENE | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 7                 |
| INDENO(1,2,3-CD)PYRENE | A       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| INDENO(1,2,3-CD)PYRENE | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| INDENO(1,2,3-CD)PYRENE | C       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| INDENO(1,2,3-CD)PYRENE | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| INDENO(1,2,3-CD)PYRENE | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 5                 |
| INDENO(1,2,3-CD)PYRENE | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| INDENO(1,2,3-CD)PYRENE | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 7                 |

Table 3-7
Laboratory Analytical Results
Semi-Volatile Organic Compounds - Non-Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound               | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|------------------------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| N-NITROSODIPROPYLAMINE | A       | 0.005                 | 0.006                    | 0.001                 | 0.000              | 9                 |
| N-NITROSODIPROPYLAMINE | В       | 0.005                 | 0.006                    | 0.001                 | 0.000              | 9                 |
| N-NITROSODIPROPYLAMINE | C       | 0.005                 | 0.006                    | 0.001                 | 0.000              | 9                 |
| N-NITROSODIPROPYLAMINE | D       | 0.005                 | 0.006                    | 0.001                 | 0.000              | 9                 |
| N-NITROSODIPROPYLAMINE | Е       | 0.005                 | 0.006                    | 0.001                 | 0.001              | 5                 |
| N-NITROSODIPROPYLAMINE | F       | 0.005                 | 0.006                    | 0.001                 | 0.000              | 9                 |
| N-NITROSODIPROPYLAMINE | FB      | 0.005                 | 0.005                    | 0.000                 | 0.000              | 7                 |

Table 3-8
Laboratory Analytical Results
Semi-Volatile Organic Compounds - Total
(Measured in ug/m3)
Fourth Quarter 1998

| Compound           | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard Deviation | 90th<br>Percentile | Number of Samples |
|--------------------|---------|-----------------------|--------------------------|--------------------|--------------------|-------------------|
| BENZO(A)ANTHRACENE | Α       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| BENZO(A)ANTHRACENE | В       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| BENZO(A)ANTHRACENE | C       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| BENZO(A)ANTHRACENE | D       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| BENZO(A)ANTHRACENE | E       | 0.001                 | 0.001                    | 0.000              | 0.000              | 18                |
| BENZO(A)ANTHRACENE | F       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| BENZO(A)ANTHRACENE | FB      | 0.001                 | 0.001                    | 0.000              | 0.000              | 19                |
| BENZO(A)PYRENE     | Α       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| BENZO(A)PYRENE     | В       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| BENZO(A)PYRENE     | С       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| BENZO(A)PYRENE     | D       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| BENZO(A)PYRENE     | E       | 0.001                 | 0.001                    | 0.000              | 0.000              | 18                |
| BENZO(A)PYRENE     | F       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| BENZO(A)PYRENE     | FB      | 0.001                 | 0.001                    | 0.000              | 0.000              | 19                |

Table 3-8
Laboratory Analytical Results
Semi-Volatile Organic Compounds - Total
(Measured in ug/m3)
Fourth Quarter 1998

| Compound             | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|----------------------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| BENZO(B)FLUORANTHENE | Α       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| BENZO(B)FLUORANTHENE | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| BENZO(B)FLUORANTHENE | C       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| BENZO(B)FLUORANTHENE | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| BENZO(B)FLUORANTHENE | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 18                |
| BENZO(B)FLUORANTHENE | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| BENZO(B)FLUORANTHENE | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 19                |
| BENZO(K)FLUORANTHENE | Α       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| BENZO(K)FLUORANTHENE | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| BENZO(K)FLUORANTHENE | C       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| BENZO(K)FLUORANTHENE | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| BENZO(K)FLUORANTHENE | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 18                |
| BENZO(K)FLUORANTHENE | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| BENZO(K)FLUORANTHENE | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 19                |

Table 3-8
Laboratory Analytical Results
Semi-Volatile Organic Compounds - Total
(Measured in ug/m3)
Fourth Quarter 1998

| Compound                   | Station | Mean<br>Concentration | Maximum Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of<br>Samples |
|----------------------------|---------|-----------------------|-----------------------|-----------------------|--------------------|----------------------|
| BIS(2-ETHYLHEXYL)PHTHALATE | A       | 0.002                 | 0.010                 | 0.001                 | 0.000              | 30                   |
| BIS(2-ETHYLHEXYL)PHTHALATE | В       | 0.002                 | 0.010                 | 0.001                 | 0.000              | 30                   |
| BIS(2-ETHYLHEXYL)PHTHALATE | C       | 0.003                 | 0.010                 | 0.002                 | 0.001              | 30                   |
| BIS(2-ETHYLHEXYL)PHTHALATE | D       | 0.007                 | 0.120                 | 0.022                 | 0.007              | 30                   |
| BIS(2-ETHYLHEXYL)PHTHALATE | E       | 0.004                 | 0.030                 | 0.007                 | 0.003              | 18                   |
| BIS(2-ETHYLHEXYL)PHTHALATE | F       | 0.002                 | 0.010                 | 0.002                 | 0.000              | 30                   |
| BIS(2-ETHYLHEXYL)PHTHALATE | FB      | 0.007                 | 0.090                 | 0.020                 | 0.008              | 19                   |
| CHRYSENE                   | Α       | 0.001                 | 0.001                 | 0.000                 | 0.000              | 30                   |
| CHRYSENE                   | В       | 0.001                 | 0.001                 | 0.000                 | 0.000              | 30                   |
| CHRYSENE                   | С       | 0.001                 | 0.001                 | 0.000                 | 0.000              | 30                   |
| CHRYSENE                   | D       | 0.001                 | 0.001                 | 0.000                 | 0.000              | 30                   |
| CHRYSENE                   | E       | 0.001                 | 0.001                 | 0.000                 | 0.000              | 18                   |
| CHRYSENE                   | F       | 0.001                 | 0.001                 | 0.000                 | 0.000              | 30                   |
| CHRYSENE                   | FB      | 0.001                 | 0.001                 | 0.000                 | 0.000              | 19                   |

Table 3-8
Laboratory Analytical Results
Semi-Volatile Organic Compounds - Total
(Measured in ug/m3)
Fourth Quarter 1998

| Compound               | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|------------------------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| DIBENZO(A,H)ANTHRACENE | Α       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| DIBENZO(A,H)ANTHRACENE | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| DIBENZO(A,H)ANTHRACENE | C       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| DIBENZO(A,H)ANTHRACENE | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| DIBENZO(A,H)ANTHRACENE | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 18                |
| DIBENZO(A,H)ANTHRACENE | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| DIBENZO(A,H)ANTHRACENE | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 19                |
| INDENO(1,2,3-CD)PYRENE | Α       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| INDENO(1,2,3-CD)PYRENE | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| INDENO(1,2,3-CD)PYRENE | C       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| INDENO(1,2,3-CD)PYRENE | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| INDENO(1,2,3-CD)PYRENE | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 18                |
| INDENO(1,2,3-CD)PYRENE | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| INDENO(1,2,3-CD)PYRENE | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 19                |

Table 3-8
Laboratory Analytical Results
Semi-Volatile Organic Compounds - Total
(Measured in ug/m3)
Fourth Quarter 1998

| Compound               | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|------------------------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| N-NITROSODIPROPYLAMINE | Α       | 0.005                 | 0.006                    | 0.001                 | 0.000              | 30                |
| N-NITROSODIPROPYLAMINE | В       | 0.005                 | 0.006                    | 0.001                 | 0.000              | 30                |
| N-NITROSODIPROPYLAMINE | C       | 0.005                 | 0.006                    | 0.001                 | 0.000              | 30                |
| N-NITROSODIPROPYLAMINE | D       | 0.005                 | 0.006                    | 0.001                 | 0.000              | 30                |
| N-NITROSODIPROPYLAMINE | E       | 0.005                 | 0.006                    | 0.001                 | 0.000              | 18                |
| N-NITROSODIPROPYLAMINE | F       | 0.005                 | 0.006                    | 0.001                 | 0.000              | 30                |
| N-NITROSODIPROPYLAMINE | FB      | 0.005                 | 0.006                    | 0.001                 | 0.000              | 19                |

Table 3-9
Laboratory Analytical Results
Pesticides / Polychlorinated Biphenyls - Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of<br>Samples |
|----------|---------|-----------------------|--------------------------|-----------------------|--------------------|----------------------|
| 4,4'-DDD | Α       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                   |
| 4,4'-DDD | В       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                   |
| 4,4'-DDD | C       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                   |
| 4,4'-DDD | D       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                   |
| 4,4'-DDD | E       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 13                   |
| 4,4'-DDD | F       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                   |
| 4,4'-DDD | FB      | 0.000                 | 0.000                    | 0.000                 | 0.000              | 12                   |
| 4,4'-DDE | Α       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                   |
| 4,4'-DDE | В       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                   |
| 4,4'-DDE | C       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                   |
| 4,4'-DDE | D       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                   |
| 4,4'-DDE | E       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 13                   |
| 4,4'-DDE | F       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                   |
| 4,4'-DDE | FB      | 0.000                 | 0.000                    | 0.000                 | 0.000              | 12                   |

Table 3-9
Laboratory Analytical Results
Pesticides / Polychlorinated Biphenyls - Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|----------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| 4,4'-DDT | Α       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                |
| 4,4'-DDT | В       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                |
| 4,4'-DDT | C       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                |
| 4,4'-DDT | D       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                |
| 4,4'-DDT | E       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 13                |
| 4,4'-DDT | F       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                |
| 4,4'-DDT | FB      | 0.000                 | 0.000                    | 0.000                 | 0.000              | 12                |
| ALDRIN   | A       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                |
| ALDRIN   | В       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                |
| ALDRIN   | С       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                |
| ALDRIN   | D       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                |
| ALDRIN   | Е       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 13                |
| ALDRIN   | F       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 21                |
| ALDRIN   | FB      | 0.000                 | 0.000                    | 0.000                 | 0.000              | 12                |

Table 3-9
Laboratory Analytical Results
Pesticides / Polychlorinated Biphenyls - Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound     | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|--------------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| AROCLOR 1242 | A       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| AROCLOR 1242 | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| AROCLOR 1242 | С       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| AROCLOR 1242 | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| AROCLOR 1242 | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 13                |
| AROCLOR 1242 | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| AROCLOR 1242 | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 12                |
| AROCLOR 1254 | Α       | 0.001                 | 100.0                    | 0.000                 | 0.000              | 21                |
| AROCLOR 1254 | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| AROCLOR 1254 | С       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| AROCLOR 1254 | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| AROCLOR 1254 | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 13                |
| AROCLOR 1254 | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| AROCLOR 1254 | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 12                |

Table 3-9
Laboratory Analytical Results
Pesticides / Polychlorinated Biphenyls - Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound     | Station 4. | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|--------------|------------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| AROCLOR 1260 | Α          | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| AROCLOR 1260 | В          | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| AROCLOR 1260 | C          | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| AROCLOR 1260 | D          | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| AROCLOR 1260 | Е          | 0.001                 | 0.001                    | 0.000                 | 0.000              | 13                |
| AROCLOR 1260 | F          | 0.001                 | 0.001                    | 0.000                 | 0.000              | 21                |
| AROCLOR 1260 | FB         | 0.001                 | 0.001                    | 0.000                 | 0.000              | 12                |

Table 3-10
Laboratory Analytical Results
Pesticides / Polychlorinated Biphenyls - Non-Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound | Station    | Mean<br>Concentration | Maximum Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|----------|------------|-----------------------|-----------------------|-----------------------|--------------------|-------------------|
| 4,4'-DDD | Α          | 0.000                 | 0.000                 | 0.000                 | 0.000              | 9                 |
| 4,4'-DDD | В          | 0.000                 | 0.000                 | 0.000                 | 0.000              | 9                 |
| 4,4'-DDD | C          | 0.000                 | 0.000                 | 0.000                 | 0.000              | 9                 |
| 4,4'-DDD | D          | 0.000                 | 0.000                 | 0.000                 | 0.000              | 9                 |
| 4,4'-DDD | E          | 0.000                 | 0.000                 | 0.000                 | 0.000              | 5                 |
| 4,4'-DDD | <b>F</b> - | 0.000                 | 0.000                 | 0.000                 | 0.000              | 9                 |
| 4,4'-DDD | FB         | 0.000                 | 0.000                 | 0.000                 | 0.000              | 7                 |
| 4,4'-DDE | Α          | 0.000                 | 0.000                 | 0.000                 | 0.000              | 9                 |
| 4,4'-DDE | В          | 0.000                 | 0.000                 | 0.000                 | 0.000              | 9                 |
| 4,4'-DDE | С          | 0.000                 | 0.000                 | 0.000                 | 0.000              | 9                 |
| 4,4'-DDE | D          | 0.000                 | 0.000                 | 0.000                 | 0.000              | 9                 |
| 4,4'-DDE | E          | 0.000                 | 0.000                 | 0.000                 | 0.000              | 5                 |
| 4,4'-DDE | F          | 0.000                 | 0.000                 | 0.000                 | 0.000              | 9                 |
| 4,4'-DDE | FB         | 0.000                 | 0.000                 | 0.000                 | 0.000              | 7                 |

Table 3-10
Laboratory Analytical Results
Pesticides / Polychlorinated Biphenyls - Non-Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of<br>Samples |
|----------|---------|-----------------------|--------------------------|-----------------------|--------------------|----------------------|
| 4,4'-DDT | Α       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 9                    |
| 4,4'-DDT | В       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 9                    |
| 4,4'-DDT | С       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 9                    |
| 4,4'-DDT | D       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 9                    |
| 4,4'-DDT | Е       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 5                    |
| 4,4'-DDT | F       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 9                    |
| 4,4'-DDT | FB      | 0.000                 | 0.000                    | 0.000                 | 0.000              | 7                    |
| ALDRIN   | Α       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 9                    |
| ALDRIN   | В       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 9                    |
| ALDRIN   | C       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 9                    |
| ALDRIN   | D       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 9                    |
| ALDRIN   | Е       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 5                    |
| ALDRIN   | F       | 0.000                 | 0.000                    | 0.000                 | 0.000              | 9                    |
| ALDRIN   | FB      | 0.000                 | 0.000                    | 0.000                 | 0.000              | 7                    |

Table 3-10
Laboratory Analytical Results
Pesticides / Polychlorinated Biphenyls - Non-Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound     | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of<br>Samples |
|--------------|---------|-----------------------|--------------------------|-----------------------|--------------------|----------------------|
| AROCLOR 1242 | Α       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                    |
| AROCLOR 1242 | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                    |
| AROCLOR 1242 | C       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                    |
| AROCLOR 1242 | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                    |
| AROCLOR 1242 | Е       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 5                    |
| AROCLOR 1242 | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                    |
| AROCLOR 1242 | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 7                    |
| AROCLOR 1254 | Α       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                    |
| AROCLOR 1254 | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                    |
| AROCLOR 1254 | C       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                    |
| AROCLOR 1254 | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                    |
| AROCLOR 1254 | Е       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 5                    |
| AROCLOR 1254 | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                    |
| AROCLOR 1254 | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 7                    |

Table 3-10
Laboratory Analytical Results
Pesticides / Polychlorinated Biphenyls - Non-Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound     | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|--------------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| AROCLOR 1260 | A       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| AROCLOR 1260 | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| AROCLOR 1260 | C       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| AROCLOR 1260 | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 9                 |
| AROCLOR 1260 | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 5                 |
| AROCLOR 1260 | F       | 0.002                 | 0.010                    | 0.003                 | 0.002              | 9                 |
| AROCLOR 1260 | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 7                 |

Table 3-11
Laboratory Analytical Results
Pesticides / Polychlorinated Biphenyls - Total
(Measured in ug/m3)
Fourth Quarter 1998

| Compound | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard Deviation | 90th<br>Percentile | Number of Samples |
|----------|---------|-----------------------|--------------------------|--------------------|--------------------|-------------------|
| 4,4'-DDD | A       | 0.000                 | 0.000                    | 0.000              | 0.000              | 30                |
| 4,4'-DDD | В       | 0.000                 | 0.000                    | 0.000              | 0.000              | 30                |
| 4,4'-DDD | C       | 0.000                 | 0.000                    | 0.000              | 0.000              | 30                |
| 4,4'-DDD | D       | 0.000                 | 0.000                    | 0.000              | 0.000              | 30                |
| 4,4'-DDD | E       | 0.000                 | 0.000                    | 0.000              | 0.000              | 18                |
| 4,4'-DDD | F       | 0.000                 | 0.000                    | 0.000              | 0.000              | 30                |
| 4,4'-DDD | FB      | 0.000                 | 0.000                    | 0.000              | 0.000              | 19                |
| 4,4'-DDE | Α       | 0.000                 | 0.000                    | 0.000              | 0.000              | 30                |
| 4,4'-DDE | В       | 0.000                 | 0.000                    | 0.000              | 0.000              | 30                |
| 4,4'-DDE | С       | 0.000                 | 0.000                    | 0.000              | 0.000              | 30                |
| 4,4'-DDE | D       | 0.000                 | 0.000                    | 0.000              | 0.000              | 30                |
| 4,4'-DDE | E       | 0.000                 | 0.000                    | 0.000              | 0.000              | 18                |
| 4,4'-DDE | F       | 0.000                 | 0.000                    | 0.000              | 0.000              | 30                |
| 4,4'-DDE | FB      | 0.000                 | 0.000                    | 0.000              | 0.000              | 19                |

Table 3-11
Laboratory Analytical Results
Pesticides / Polychlorinated Biphenyls - Total
(Measured in ug/m3)
Fourth Quarter 1998

| Compound /3 | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th 1<br>Percentile | Number of<br>Samples |
|-------------|---------|-----------------------|--------------------------|-----------------------|----------------------|----------------------|
| 4,4'-DDT    | Α       | 0.000                 | 0.000                    | 0.000                 | 0.000                | 30                   |
| 4,4'-DDT    | В       | 0.000                 | 0.000                    | 0.000                 | 0.000                | 30                   |
| 4,4'-DDT    | С       | 0.000                 | 0.000                    | 0.000                 | 0.000                | 30                   |
| 4,4'-DDT    | D       | 0.000                 | 0.000                    | 0.000                 | 0.000                | 30                   |
| 4,4'-DDT    | E       | 0.000                 | 0.000                    | 0.000                 | 0.000                | 18                   |
| 4,4'-DDT    | F       | 0.000                 | 0.000                    | 0.000                 | 0.000                | 30                   |
| 4,4'-DDT    | FB      | 0.000                 | 0.000                    | 0.000                 | 0.000                | 19                   |
| ALDRIN      | Α       | 0.000                 | 0.000                    | 0.000                 | 0.000                | 30                   |
| ALDRIN      | В       | 0.000                 | 0.000                    | 0.000                 | 0.000                | 30                   |
| ALDRIN      | C       | 0.000                 | 0.000                    | 0.000                 | 0.000                | 30                   |
| ALDRIN      | D       | 0.000                 | 0.000                    | 0.000                 | 0.000                | 30                   |
| ALDRIN      | · E     | 0.000                 | 0.000                    | 0.000                 | 0.000                | 18                   |
| ALDRIN      | F       | 0.000                 | 0.000                    | 0.000                 | 0.000                | 30                   |
| ALDRIN      | FB      | 0.000                 | 0.000                    | 0.000                 | 0.000                | 19                   |

ug/m3 = micrograms / cubic meter

IT Job No. 773247

Table 3-11
Laboratory Analytical Results
Pesticides / Polychlorinated Biphenyls - Total
(Measured in ug/m3)
Fourth Quarter 1998

| Compound     | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard Deviation | 90th<br>Percentile | Number of Samples |
|--------------|---------|-----------------------|--------------------------|--------------------|--------------------|-------------------|
| AROCLOR 1242 | Α       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| AROCLOR 1242 | В       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| AROCLOR 1242 | С       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| AROCLOR 1242 | D       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| AROCLOR 1242 | E       | 0.001                 | 0.001                    | 0.000              | 0.000              | 18                |
| AROCLOR 1242 | F       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| AROCLOR 1242 | FB      | 0.001                 | 0.001                    | 0.000              | 0.000              | 19                |
| AROCLOR 1254 | Α       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| AROCLOR 1254 | В       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| AROCLOR 1254 | С       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| AROCLOR 1254 | D       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| AROCLOR 1254 | E       | 0.001                 | 0.001                    | 0.000              | 0.000              | 18                |
| AROCLOR 1254 | F       | 0.001                 | 0.001                    | 0.000              | 0.000              | 30                |
| AROCLOR 1254 | FB      | 0.001                 | 0.001                    | 0.000              | 0.000              | 19                |

Table 3-11
Laboratory Analytical Results
Pesticides / Polychlorinated Biphenyls - Total
(Measured in ug/m3)
Fourth Quarter 1998

| Compound     | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|--------------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| AROCLOR 1260 | Α       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| AROCLOR 1260 | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| AROCLOR 1260 | C       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| AROCLOR 1260 | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 30                |
| AROCLOR 1260 | Е       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 18                |
| AROCLOR 1260 | F       | 0.001                 | 0.010                    | 0.002                 | 0.000              | 30                |
| AROCLOR 1260 | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 19                |

Table 3-12
Laboratory Analytical Results
Metals - Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of<br>Samples |
|----------|---------|-----------------------|--------------------------|-----------------------|--------------------|----------------------|
| ALUMINUM | Α       | 1.208                 | 1.236                    | 0.021                 | 0.006              | 30                   |
| ALUMINUM | В       | 1.202                 | 1.235                    | 0.021                 | 0.006              | 30                   |
| ALUMINUM | C       | 1.202                 | 1.238                    | 0.016                 | 0.005              | 30                   |
| ALUMINUM | D       | 1.205                 | 1.250                    | 0.020                 | 0.006              | 30                   |
| ALUMINUM | E       | 1.207                 | 1.252                    | 0.026                 | 0.010              | 19                   |
| ALUMINUM | F       | 1.183                 | 1.224                    | 0.017                 | 0.005              | 29                   |
| ALUMINUM | FB      | 1.199                 | 1.220                    | 0.020                 | 0.008              | 18                   |
| ANTIMONY | Α       | 0.242                 | 0.248                    | 0.004                 | 0.001              | 30                   |
| ANTIMONY | В       | 0.240                 | 0.247                    | 0.004                 | 0.001              | 30                   |
| ANTIMONY | C       | 0.240                 | 0.248                    | 0.003                 | 0.001              | 30                   |
| ANTIMONY | D       | 0.241                 | 0.250                    | 0.004                 | 0.001              | 30                   |
| ANTIMONY | Е       | 0.241                 | 0.251                    | 0.005                 | 0.002              | 19                   |
| ANTIMONY | F       | 0.237                 | 0.245                    | 0.004                 | 0.001              | 29                   |
| ANTIMONY | FB      | 0.240                 | 0.244                    | 0.004                 | 0.002              | 18                   |

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Table 3-12
Laboratory Analytical Results
Metals - Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound  | Station | Mean Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of<br>Samples |
|-----------|---------|--------------------|--------------------------|-----------------------|--------------------|----------------------|
| ARSENIC   | Α       | 0.001              | 0.002                    | 0.000                 | 0.000              | 30                   |
| ARSENIC   | В       | 0.001              | 0.003                    | 0.000                 | 0.000              | 30                   |
| ARSENIC   | С       | 0.001              | 0.002                    | 0.000                 | 0.000              | 30                   |
| ARSENIC   | D       | 0.001              | 0.002                    | 0.000                 | 0.000              | 30                   |
| ARSENIC   | Е       | 0.001              | 0.002                    | 0.000                 | 0.000              | 19                   |
| ARSENIC   | F       | 0.001              | 0.003                    | 0.000                 | 0.000              | 29                   |
| ARSENIC   | FB      | 0.001              | 0.001                    | 0.000                 | 0.000              | 18                   |
| BERYLLIUM | A       | 0.006              | 0.006                    | 0.000                 | 0.000              | 30                   |
| BERYLLIUM | В       | 0.006              | 0.006                    | 0.000                 | 0.000              | 30                   |
| BERYLLIUM | С       | 0.006              | 0.006                    | 0.000                 | 0.000              | 30                   |
| BERYLLIUM | D       | 0.006              | 0.006                    | 0.000                 | 0.000              | 30                   |
| BERYLLIUM | Е       | 0.006              | 0.006                    | 0.000                 | 0.000              | 19                   |
| BERYLLIUM | F       | 0.006              | 0.006                    | 0.000                 | 0.000              | 29                   |
| BERYLLIUM | FB      | 0.006              | 0.006                    | 0.000                 | 0.000              | 18                   |

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Table 3-12
Laboratory Analytical Results
Metals - Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard | 90th<br>Percentile | Number of Samples |
|----------|---------|-----------------------|--------------------------|----------|--------------------|-------------------|
| COPPER   | A       | 0.170                 | 0.528                    | 0.151    | 0.045              | 30                |
| COPPER   | В       | 0.089                 | 0.261                    | 0.040    | 0.012              | 30                |
| COPPER   | C       | 0.146                 | 0.379                    | 0.082    | 0.025              | 30                |
| COPPER   | D       | 0.155                 | 0.480                    | 0.090    | 0.027              | 30                |
| COPPER   | E       | 0.195                 | 0.417                    | 0.119    | 0.045              | 19                |
| COPPER   | F       | 0.077                 | 0.280                    | 0.045    | 0.014              | 29                |
| COPPER   | FB      | 0.009                 | 0.066                    | 0.014    | 0.005              | 18                |
| LEAD     | Α       | 0.016                 | 0.066                    | 0.011    | 0.003              | 30                |
| LEAD     | В       | 0.013                 | 0.044                    | 0.006    | 0.002              | 30                |
| LEAD     | С       | 0.017                 | 0.061                    | 0.013    | 0.004              | 30                |
| LEAD     | D       | 0.016                 | 0.038                    | 0.009    | 0.003              | 30                |
| LEAD     | E       | 0.017                 | 0.039                    | 0.011    | 0.004              | 19                |
| LEAD     | F       | 0.025                 | 0.080                    | 0.019    | 0.006              | 29                |
| LEAD     | FB      | 0.012                 | 0.012                    | 0.000    | 0.000              | 18                |

| TSPM = Total Susp |  |                 |
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| ug/m3 = microgram |  | IT Job No. 7732 |
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Table 3-12
Laboratory Analytical Results
Metals - Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound  | Station | Mean<br>Concentration | Maximum Concentration | Standard<br>Deviation | 90th Percentile | Number of Samples |
|-----------|---------|-----------------------|-----------------------|-----------------------|-----------------|-------------------|
| MANGANESE | Α       | 0.018                 | 0.054                 | 0.014                 | 0.004           | 30                |
| MANGANESE | В       | 0.015                 | 0.044                 | 0.010                 | 0.003           | 30                |
| MANGANESE | C       | 0.036                 | 0.123                 | 0.026                 | 0.008           | 30                |
| MANGANESE | D       | 0.016                 | 0.045                 | 0.012                 | 0.003           | 30                |
| MANGANESE | E       | 0.018                 | 0.046                 | 0.014                 | 0.005           | 19                |
| MANGANESE | F       | 0.025                 | 0.103                 | 0.020                 | 0.006           | 29                |
| MANGANESE | FB      | 0.006                 | 0.006                 | 0.000                 | 0.000           | 18                |
| MANGANESE | QC      | 0.000                 | 0.000                 |                       |                 | 1                 |
| MERCURY   | Α       | 0.001                 | 0.001                 | 0.000                 | 0.000           | 30                |
| MERCURY   | В       | 0.001                 | 0.001                 | 0.000                 | 0.000           | 30                |
| MERCURY   | С       | 0.001                 | 0.001                 | 0.000                 | 0.000           | 30                |
| MERCURY   | D       | 0.001                 | 0.001                 | 0.000                 | 0.000           | 30                |
| MERCURY   | E       | 0.001                 | 0.001                 | 0.000                 | 0.000           | 19                |
| MERCURY   | F       | 0.001                 | 0.001                 | 0.000                 | 0.000           | 29                |
| MERCURY   | FB      | 0.001                 | 0.001                 | 0.000                 | 0.000           | 18                |

TSPM = Total Suspended Particulate Matter ug/m3 = micrograms / cubic meter.

IT Job No. 773247

Table 3-12
Laboratory Analytical Results
Metals - Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|----------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| NICKEL   | A       | 0.063                 | 0.065                    | 0.001                 | 0.000              | 30                |
| NICKEL   | В       | 0.063                 | 0.065                    | 0.001                 | 0.000              | 30                |
| NICKEL   | C       | 0.063                 | 0.065                    | 0.001                 | 0.000              | 30                |
| NICKEL   | D       | 0.063                 | 0.065                    | 0.001                 | 0.000              | 30                |
| NICKEL   | E       | 0.063                 | 0.065                    | 0.001                 | 0.001              | 19                |
| NICKEL   | F       | 0.061                 | 0.064                    | 0.001                 | 0.000              | 29                |
| NICKEL   | FB      | 0.062                 | 0.064                    | 0.001                 | 0.000              | 18                |
| VANADIUM | Α       | 0.121                 | 0.124                    | 0.002                 | 0.001              | 30                |
| VANADIUM | В       | 0.120                 | 0.124                    | 0.002                 | 0.001              | 30                |
| VANADIUM | C       | 0.120                 | 0.124                    | 0.002                 | 0.000              | 30                |
| VANADIUM | D       | 0.120                 | 0.125                    | 0.002                 | 0.001              | 30                |
| VANADIUM | E       | 0.121                 | 0.125                    | 0.003                 | 0.001              | 19                |
| VANADIUM | F       | 0.118                 | 0.123                    | 0.002                 | 0.001              | 29                |
| VANADIUM | FB      | 0.120                 | 0.122                    | 0.002                 | 0.001              | 18                |

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| ug/m3 = micro | )grams/c | udic mete    |              |

Table 3-12
Laboratory Analytical Results
Metals - Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound | Station | Mean Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|----------|---------|--------------------|--------------------------|-----------------------|--------------------|-------------------|
| ZINC     | Α       | 0.047              | 0.116                    | 0.025                 | 0.008              | 30                |
| ZINC     | В       | 0.044              | 0.110                    | 0.021                 | 0.006              | 30                |
| ZINC     | C       | 0.071              | 0.179                    | 0.034                 | 0.010              | 30                |
| ZINC     | D       | 0.049              | 0.109                    | 0.024                 | 0.007              | 30                |
| ZINC     | E       | 0.056              | 0.122                    | 0.029                 | 0.011              | 19                |
| ZINC     | F       | 0.064              | 0.162                    | 0.033                 | 0.010              | 29                |
| ZINC     | FB      | 0.001              | 0.005                    | 0.001                 | 0.000              | 18                |

Table 3-13
Laboratory Analytical Results
Metals - Non-Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|----------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| ALUMINUM | Α       | 1.219                 | 1.240                    | 0.021                 | 0.011              | 9                 |
| ALUMINUM | В       | 1.215                 | 1.232                    | 0.018                 | 0.010              | 9                 |
| ALUMINUM | C       | 1.200                 | 1.234                    | 0.029                 | 0.016              | 9                 |
| ALUMINUM | D       | 1.217                 | 1.236                    | 0.020                 | 0.011              | 9                 |
| ALUMINUM | E       | 1.218                 | 1.248                    | 0.025                 | 0.017              | 6                 |
| ALUMINUM | F       | 1.190                 | 1.212                    | 0.016                 | 0.009              | 9                 |
| ALUMINUM | FB      | 1.209                 | 1.224                    | 0.017                 | 0.012              | 6                 |
| ANTIMONY | Α       | 0.244                 | 0.248                    | 0.004                 | 0.002              | 9                 |
| ANTIMONY | В       | 0.243                 | 0.247                    | 0.004                 | 0.002              | 9                 |
| ANTIMONY | C       | 0.240                 | 0.247                    | 0.006                 | 0.003              | 9                 |
| ANTIMONY | D       | 0.243                 | 0.247                    | 0.004                 | 0.002              | 9                 |
| ANTIMONY | E       | 0.244                 | 0.250                    | 0.005                 | 0.003              | 6                 |
| ANTIMONY | F       | 0.238                 | 0.242                    | 0.003                 | 0.002              | 9                 |
| ANTIMONY | FB      | 0.242                 | 0.245                    | 0.004                 | 0.002              | 6                 |

| TSPM  | = Tota | l Susnei     | ided Pa | articul | ate Ma | itter |
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| ug/m3 | - micr | ograms       | i cubic | merer   |        | 25000 |

**Table 3-13 Laboratory Analytical Results Metals - Non-Operational Days** (Measured in ug/m3) Fourth Quarter 1998

| Compound  | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of<br>Samples |
|-----------|---------|-----------------------|--------------------------|-----------------------|--------------------|----------------------|
| ARSENIC   | Α       | 0.001                 | 0.002                    | 0.000                 | 0.000              | 10                   |
| ARSENIC   | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 10                   |
| ARSENIC   | С       | 0.001                 | 0.003                    | 0.001                 | 0.000              | 10                   |
| ARSENIC   | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 10                   |
| ARSENIC   | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 6                    |
| ARSENIC   | F       | 0.001                 | 0.002                    | 0.000                 | 0.000              | 10                   |
| ARSENIC   | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 7                    |
| BERYLLIUM | Α       | 0.006                 | 0.006                    | 0.000                 | 0.000              | 10                   |
| BERYLLIUM | В       | 0.006                 | 0.006                    | 0.000                 | 0.000              | 10                   |
| BERYLLIUM | С       | 0.006                 | 0.006                    | 0.000                 | 0.000              | 10                   |
| BERYLLIUM | D       | 0.006                 | 0.006                    | 0.000                 | 0.000              | 10                   |
| BERYLLIUM | E       | 0.006                 | 0.006                    | 0.000                 | 0.000              | 6                    |
| BERYLLIUM | F       | 0.006                 | 0.006                    | 0.000                 | 0.000              | 10                   |
| BERYLLIUM | FB      | 0.006                 | 0.006                    | 0.000                 | 0.000              | 7                    |

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|                | Table 1        | Military No. |            |  |                  |          |

Table 3-13
Laboratory Analytical Results
Metals - Non-Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|----------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| COPPER   | Α       | 0.200                 | 0.470                    | 0.165                 | 0.086              | 10                |
| COPPER   | В       | 0.094                 | 0.129                    | 0.029                 | 0.015              | 10                |
| COPPER   | C       | 0.170                 | 0.546                    | 0.142                 | 0.074              | 10                |
| COPPER   | D       | 0.211                 | 0.410                    | 0.099                 | 0.051              | 10                |
| COPPER   | Е       | 0.229                 | 0.345                    | 0.090                 | 0.061              | 6                 |
| COPPER   | F       | 0.109                 | 0.315                    | 0.081                 | 0.042              | 10                |
| COPPER   | FB      | 0.006                 | 0.006                    | 0.000                 | 0.000              | 7                 |
| LEAD     | Α       | 0.012                 | 0.013                    | 0.001                 | 0.000              | 10                |
| LEAD     | В       | 0.012                 | 0.013                    | 0.001                 | 0.000              | 10                |
| LEAD     | · C     | 0.012                 | 0.013                    | 0.001                 | 0.000              | 10                |
| LEAD     | D       | 0.012                 | 0.013                    | 0.001                 | 0.000              | 10                |
| LEAD     | Е       | 0.012                 | 0.013                    | 0.000                 | 0.000              | 6                 |
| LEAD     | F       | 0.012                 | 0.012                    | 0.001                 | 0.000              | 10                |
| LEAD     | FB      | 0.012                 | 0.012                    | 0.001                 | 0.000              | 7                 |

| TSPM = Total  |  |  |
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| ug/m3 = micro |  |  |
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Table 3-13
Laboratory Analytical Results
Metals - Non-Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound  | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of<br>Samples |
|-----------|---------|-----------------------|--------------------------|-----------------------|--------------------|----------------------|
| MANGANESE | Α       | 0.011                 | 0.023                    | 0.008                 | 0.004              | 10                   |
| MANGANESE | В       | 0.009                 | 0.018                    | 0.005                 | 0.003              | 10                   |
| MANGANESE | C       | 0.012                 | 0.028                    | 0.008                 | 0.004              | 10                   |
| MANGANESE | D       | 0.009                 | 0.019                    | 0.005                 | 0.003              | 10                   |
| MANGANESE | E       | 0.009                 | 0.019                    | 0.006                 | 0.004              | 6                    |
| MANGANESE | F       | 0.013                 | 0.028                    | 0.009                 | 0.005              | 10                   |
| MANGANESE | FB      | 0.007                 | 0.013                    | 0.003                 | 0.002              | 7                    |
| MERCURY   | Α       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 10                   |
| MERCURY   | В       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 10                   |
| MERCURY   | С       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 10                   |
| MERCURY   | D       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 10                   |
| MERCURY   | E       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 6                    |
| MERCURY   | F       | 0.001                 | 0.001                    | 0.000                 | 0.000              | 10                   |
| MERCURY   | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 7                    |

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ug/m3 = micrograms / cubic meter

Table 3-13
Laboratory Analytical Results
Metals - Non-Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of<br>Samples |
|----------|---------|-----------------------|--------------------------|-----------------------|--------------------|----------------------|
| NICKEL   | Α       | 0.064                 | 0.065                    | 0.001                 | 0.001              | 10                   |
| NICKEL   | В       | 0.063                 | 0.065                    | 0.001                 | 0.001              | 10                   |
| NICKEL   | С       | 0.063                 | 0.065                    | 0.002                 | 0.001              | 10                   |
| NICKEL   | D       | 0.063                 | 0.065                    | 0.001                 | 0.001              | 10                   |
| NICKEL   | E       | 0.063                 | 0.065                    | 0.001                 | 0.001              | 6                    |
| NICKEL   | F       | 0.062                 | 0.063                    | 0.001                 | 0.001              | 10                   |
| NICKEL   | FB      | 0.063                 | 0.065                    | 0.001                 | 0.001              | 7                    |
| VANADIUM | Α       | 0.122                 | 0.124                    | 0.002                 | 0.001              | 10                   |
| VANADIUM | В       | 0.122                 | 0.123                    | 0.002                 | 0.001              | 10                   |
| VANADIUM | С       | 0.120                 | 0.124                    | 0.003                 | 0.002              | 10                   |
| VANADIUM | D       | 0.122                 | 0.124                    | 0.002                 | 0.001              | 10                   |
| VANADIUM | E       | 0.122                 | 0.125                    | 0.003                 | 0.002              | 6                    |
| VANADIUM | F       | 0.119                 | 0.121                    | 0.002                 | 0.001              | 10                   |
| VANADIUM | FB      | 0.121                 | 0.123                    | 0.002                 | 0.001              | 7                    |

IT Job No. 773247

TSPM = Total Suspended Particulate Matter
ug/m3 = micrograms / cubic meter

Page 5 of

Table 3-13
Laboratory Analytical Results
Metals - Non-Operational Days
(Measured in ug/m3)
Fourth Quarter 1998

| Compound . | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th Rercentile | Number of<br>Samples |
|------------|---------|-----------------------|--------------------------|-----------------------|-----------------|----------------------|
| ZINC       | A       | 0.042                 | 0.095                    | 0.032                 | 0.017           | 10                   |
| ZINC       | В       | 0.037                 | 0.078                    | 0.025                 | 0.013           | 10                   |
| ZINC       | С       | 0.053                 | 0.113                    | 0.037                 | 0.019           | 10                   |
| ZINC       | D       | 0.034                 | 0.065                    | 0.019                 | 0.010           | 10                   |
| ZINC       | Е       | 0.031                 | 0.044                    | 0.013                 | 0.009           | 6                    |
| ZINC       | F       | 0.064                 | 0.182                    | 0.065                 | 0.034           | 10                   |
| ZINC       | FB      | 0.001                 | 0.004                    | 0.001                 | 0.001           | 7                    |

Table 3-14
Laboratory Analytical Results
Metals - Total
(Measured in ug/m3)
Fourth Quarter 1998

| Compound | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|----------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| ALUMINUM | Α       | 1.210                 | 1.240                    | 0.021                 | 0.006              | 39                |
| ALUMINUM | В       | 1.205                 | 1.235                    | 0.021                 | 0.005              | 39                |
| ALUMINUM | С       | 1.202                 | 1.238                    | 0.019                 | 0.005              | 39                |
| ALUMINUM | D       | 1.208                 | 1.250                    | 0.020                 | 0.005              | 39                |
| ALUMINUM | E       | 1.210                 | 1.252                    | 0.026                 | 0.008              | 25                |
| ALUMINUM | F       | 1.185                 | 1.224                    | 0.017                 | 0.005              | 38                |
| ALUMINUM | FB      | 1.201                 | 1.224                    | 0.020                 | 0.007              | 24                |
| ANTIMONY | Α       | 0.242                 | 0.248                    | 0.004                 | 0.001              | 39                |
| ANTIMONY | В       | 0.241                 | 0.247                    | 0.004                 | 0.001              | 39                |
| ANTIMONY | C       | 0.240                 | 0.248                    | 0.004                 | 0.001              | 39                |
| ANTIMONY | D       | 0.241                 | 0.250                    | 0.004                 | 0.001              | 39                |
| ANTIMONY | E       | 0.242                 | 0.251                    | 0.005                 | 0.002              | 25                |
| ANTIMONY | F       | 0.237                 | 0.245                    | 0.003                 | 0.001              | 38                |
| ANTIMONY | FB      | 0.240                 | 0.245                    | 0.004                 | 0.001              | 24                |

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| TSPM = Total Suspended Particulate Matte |                   |   |               |
|  |                   |   | D - 1 - 6 - 6 |
| ug/m3 = micrograms / cubic meter         | IT Job No. 773247 | 194 194 194 195 195 195 195 195 195 195 195 195 195 | Page 1 of 6   |

Table 3-14
Laboratory Analytical Results
Metals - Total
(Measured in ug/m3)
Fourth Quarter 1998

| Compound  | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|-----------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| ARSENIC   | A       | 0.001                 | 0.002                    | 0.000                 | 0.000              | 40                |
| ARSENIC   | В       | 0.001                 | 0.003                    | 0.000                 | 0.000              | 40                |
| ARSENIC   | С       | 0.001                 | 0.003                    | 0.000                 | 0.000              | 40                |
| ARSENIC   | D       | 0.001                 | 0.002                    | 0.000                 | 0.000              | 40                |
| ARSENIC   | E       | 0.001                 | 0.002                    | 0.000                 | 0.000              | 25                |
| ARSENIC   | F       | 0.001                 | 0.003                    | 0.000                 | 0.000              | 39                |
| ARSENIC   | FB      | 0.001                 | 0.001                    | 0.000                 | 0.000              | 25                |
| BERYLLIUM | Α       | 0.006                 | 0.006                    | 0.000                 | 0.000              | 40                |
| BERYLLIUM | В       | 0.006                 | 0.006                    | 0.000                 | 0.000              | 40                |
| BERYLLIUM | С       | 0.006                 | 0.006                    | 0.000                 | 0.000              | 40                |
| BERYLLIUM | D       | 0.006                 | 0.006                    | 0.000                 | 0.000              | 40                |
| BERYLLIUM | E       | 0.006                 | 0.006                    | 0.000                 | 0.000              | 25                |
| BERYLLIUM | F       | 0.006                 | 0.006                    | 0.000                 | 0.000              | 39                |
| BERYLLIUM | FB      | 0.006                 | 0.006                    | 0.000                 | 0.000              | 25                |

| TSPM = Total Suspended Particulate Matter |                   |             |
|---|-------------------|-------------|
| ug/m3 = micrograms / cubic meter          | IT Job No. 773247 | Page 2 of 6 |

Table 3-14
Laboratory Analytical Results
Metals - Total
(Measured in ug/m3)
Fourth Quarter 1998

| Compound | Station | Mean<br>Concentration | Maximum Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|----------|---------|-----------------------|-----------------------|-----------------------|--------------------|-------------------|
| COPPER   | Α       | 0.178                 | 0.528                 | 0.153                 | 0.040              | 40                |
| COPPER   | В       | 0.090                 | 0.261                 | 0.037                 | 0.010              | 40                |
| COPPER   | C       | 0.152                 | 0.546                 | 0.099                 | 0.026              | 40                |
| COPPER   | D       | 0.169                 | 0.480                 | 0.094                 | 0.025              | 40                |
| COPPER   | Е       | 0.203                 | 0.417                 | 0.112                 | 0.037              | 25                |
| COPPER   | F       | 0.085                 | 0.315                 | 0.057                 | 0.015              | 39                |
| COPPER   | FB      | 0.008                 | 0.066                 | 0.012                 | 0.004              | 25                |
| LEAD     | Α       | 0.015                 | 0.066                 | 0.010                 | 0.003              | 40                |
| LEAD     | В       | 0.013                 | 0.044                 | 0.005                 | 0.001              | 40                |
| LEAD     | C       | 0.016                 | 0.061                 | 0.011                 | 0.003              | 40                |
| LEAD     | D       | 0.015                 | 0.038                 | 0.008                 | 0.002              | 40                |
| LEAD     | E       | 0.016                 | 0.039                 | 0.010                 | 0.003              | 25                |
| LEAD     | F       | 0.021                 | 0.080                 | 0.017                 | 0.004              | 39                |
| LEAD     | FB      | 0.012                 | 0.012                 | 0.000                 | 0.000              | 25                |

| TSPM = Total Suspended Particulate Matter |                   |             |
|---|-------------------|-------------|
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|   |                   | Page 3 of 6 |
|   |                   |             |
|   | IT Job No. 773247 |             |
|   |                   |             |
| ug/m3 = micrograms / cubic meter          |                   |             |
|   |                   |             |
|   |                   |             |

Table 3-14
Laboratory Analytical Results
Metals - Total
(Measured in ug/m3)
Fourth Quarter 1998

| Compound                  | Station                                   | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |  |  |  |
|---------------------------|---|-----------------------|--------------------------|-----------------------|--------------------|-------------------|--|--|--|
| MANGANESE                 | Α   | 0.017                 | 0.054                    | 0.013                 | 0.003              | 40                |  |  |  |
| MANGANESE                 | В   | 0.013                 | 0.044                    | 0.010                 | 0.002              | 40                |  |  |  |
| MANGANESE                 | <b>C</b> 9.2                              | 0.030                 | 0.123                    | 0.025                 | 0.007              | 40                |  |  |  |
| MANGANESE                 | D   | 0.014                 | 0.045                    | 0.011                 | 0.003              | 40                |  |  |  |
| MANGANESE                 | E   | 0.016                 | 0.046                    | 0.013                 | 0.004              | 25                |  |  |  |
| MANGANESE                 | F   | 0.022                 | 0.103                    | 0.019                 | 0.005              | 39                |  |  |  |
| MANGANESE                 | FB  | 0.006                 | 0.013                    | 0.001                 | 0.000              | 25                |  |  |  |
| MANGANESE                 | QC  | 0.000                 | 0.000                    |                       |                    | 1                 |  |  |  |
| MERCURY                   | Α   | 0.001                 | 0.001                    | 0.000                 | 0.000              | 40                |  |  |  |
| MERCURY                   | В   | 0.001                 | 0.001                    | 0.000                 | 0.000              | 40                |  |  |  |
| MERCURY                   | С   | 0.001                 | 0.001                    | 0.000                 | 0.000              | 40                |  |  |  |
| MERCURY                   | D   | 0.001                 | 0.001                    | 0.000                 | 0.000              | 40                |  |  |  |
| MERCURY                   | Е   | 0.001                 | 0.001                    | 0.000                 | 0.000              | 25                |  |  |  |
| MERCURY                   | F   | 0.001                 | 0.001                    | 0.000                 | 0.000              | 39                |  |  |  |
| MERCURY                   | FB  | 0.001                 | 0.001                    | 0.000                 | 0.000              | 25                |  |  |  |
| TSPM = Total Suspended Pa | TSPM = Total Suspended Particulate Matter |                       |                          |                       |                    |                   |  |  |  |

IT Job No. 773247

ug/m3 = micrograms / cubic meter

Page 4 of 6

Table 3-14
Laboratory Analytical Results
Metals - Total
(Measured in ug/m3)
Fourth Quarter 1998

| Compound | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|----------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| NICKEL   | A       | 0.063                 | 0.065                    | 0.001                 | 0.000              | 40                |
| NICKEL   | В       | 0.063                 | 0.065                    | 0.001                 | 0.000              | 40                |
| NICKEL   | С       | 0.063                 | 0.065                    | 0.001                 | 0.000              | 40                |
| NICKEL   | D       | 0.063                 | 0.065                    | 0.001                 | 0.000              | 40                |
| NICKEL   | E       | 0.063                 | 0.065                    | 0.001                 | 0.000              | 25                |
| NICKEL   | F       | 0.062                 | 0.064                    | 0.001                 | 0.000              | 39                |
| NICKEL   | FB      | 0.063                 | 0.065                    | 0.001                 | 0.000              | 25                |
| VANADIUM | Α       | 0.121                 | 0.124                    | 0.002                 | 0.001              | 40                |
| VANADIUM | В       | 0.121                 | 0.124                    | 0.002                 | 0.001              | 40                |
| VANADIUM | C       | 0.120                 | 0.124                    | 0.002                 | 0.001              | 40                |
| VANADIUM | D       | 0.121                 | 0.125                    | 0.002                 | 0.001              | 40                |
| VANADIUM | E       | 0.121                 | 0.125                    | 0.003                 | 0.001              | 25                |
| VANADIUM | F       | 0.118                 | 0.123                    | 0.002                 | 0.000              | 39                |
| VANADIUM | FB      | 0.120                 | 0.123                    | 0.002                 | 0.001              | 25                |

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| TO 1.1 NO 992049                                   | Page 5 of 6  |
| ug/m3 = micrograms / cubic meter IT Job No. 773247 |  |
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Table 3-14
Laboratory Analytical Results
Metals - Total
(Measured in ug/m3)
Fourth Quarter 1998

| Compound | Station | Mean<br>Concentration | Maximum<br>Concentration | Standard<br>Deviation | 90th<br>Percentile | Number of Samples |
|----------|---------|-----------------------|--------------------------|-----------------------|--------------------|-------------------|
| ZINC     | A       | 0.046                 | 0.116                    | 0.027                 | 0.007              | 40                |
| ZINC     | В       | 0.043                 | 0.110                    | 0.022                 | 0.006              | 40                |
| ZINC     | С       | 0.067                 | 0.179                    | 0.035                 | 0.009              | 40                |
| ZINC     | D       | 0.045                 | 0.109                    | 0.024                 | 0.006              | 40                |
| ZINC     | E       | 0.050                 | 0.122                    | 0.028                 | 0.009              | 25                |
| ZINC     | F       | 0.064                 | 0.182                    | 0.042                 | 0.011              | 39                |
| ZINC     | FB      | 0.001                 | 0.005                    | 0.001                 | 0.000              | 25                |

Table 3-15
Summary of Maximum Concentrations
Hunters Point Naval Shipyard
San Francisco, California

| Analytical<br>Category | Constituent | Sample<br>Date | Predominant Wind Direction <sup>1</sup> | Upwind<br>Station | Upwind<br>Analytical<br>Result<br>(ug/m³) | Downwind<br>Station | Downwind<br>Analytical<br>Result<br>(ug/m³) | Site<br>Contribution<br>(ug/m³) | Action<br>Level<br>(ug/m³) | Action<br>Level<br>Exceedance<br>(ug/m³) | Comment                |
|------------------------|-------------|----------------|---|-------------------|---|---------------------|---|---------------------------------|----------------------------|--|------------------------|
| VOC                    | Benzene     | 10/01/98       | SW                                      | F                 | 1.21                                      | Е                   | 1.18  | NA                              | 0.65                       | NA                                       | No exceedence          |
| VOC                    | Benzene     | 10/04/98       | SW                                      | F                 | 2.72                                      | D                   | 3.00  | 0.28                            | 0.65                       | NA                                       | No exceedence          |
| VOC                    | Benzene     | 10/07/98       | WSW                                     | С                 | 1.15                                      | E                   | 0.70  | NA                              | 0.65                       | NA                                       | No exceedence          |
| VOC                    | Benzene     | 10/10/98       | WSW                                     | С                 | 1.47                                      | D                   | 1.18  | 0.29                            | 0.65                       | NA                                       | No exceedence          |
| VOC                    | Benzene     | 10/13/98       | WSW                                     | С                 | 1.63                                      | D                   | 1.31  | NA                              | 0.65                       | NA                                       | No exceedence          |
| VOC                    | Benzene     | 10/16/98       | NW                                      | В                 | 1.25                                      | F                   | 1.21  | NA                              | 0.65                       | NA                                       | No exceedence          |
| VOC                    | Benzene     | 10/19/98       | WSW                                     | С                 | 3.42                                      | D                   | 3.23  | NA                              | 0.65                       | NA                                       | No exceedence          |
| VOC                    | Benzene     | 10/22/98       | SW                                      | С                 | 1.5                                       | В                   | 1.34  | NA                              | 0.65                       | NA                                       | No exceedence          |
|                        |             |                |   |                   |   |                     |   |                                 |                            |  | Refer to               |
|                        |             |                |   |                   |   |                     |   |                                 |                            |  | Subsection             |
| VOC                    | Benzene     | 10/25/98       | WSW                                     | A                 | 1.63                                      | D                   | 2.36  | 0.73                            | 0.65                       | 0.08                                     | 3.1.1.1                |
| VOC                    | Benzene     | 10/31/98       | SW                                      | С                 | 2.75                                      | В                   | 2.49  | NA                              | 0.65                       | NA                                       | No exceedence          |
| VOC                    | Benzene     | 11/03/98       | SW                                      | С                 | 2.01                                      | В                   | 1.82  | NA                              | 0.65                       | NA                                       | No exceedence          |
| VOC                    | Damana      | 11/07/00       | CATA                                    | -                 | 0.00                                      |                     | 1.60  | 0.77                            |                            |  | Refer to<br>Subsection |
|                        | Benzene     | 11/06/98       | SW                                      | F                 | 0.83                                      | D                   | 1.60  | 0.77                            | 0.65                       | 0.12                                     | 3.1.1.1                |
| VOC VOC                | Benzene     | 11/09/98       | NW                                      | В                 | 1.98                                      | F                   | 1.98  | NA                              | 0.65                       | NA                                       | No exceedence          |
| VOC                    | Benzene     | 11/12/98       | NNE                                     | В                 | 3.55                                      | C                   | 3.51  | NA                              | 0.65                       | NA                                       | No exceedence          |
| VOC                    | Benzene     | 11/15/98       | ESE                                     | E                 | 1.79                                      | A                   | 1.85  | 0.06                            | 0.65                       | NA                                       | No exceedence          |
| VOC                    | Benzene     | 11/18/98       | NNE                                     | D                 | 2.27                                      | F                   | 2.65  | 0.38                            | 0.65                       | NA                                       | No exceedence          |
|                        | Benzene     |                | ESE                                     | D                 | 0.8                                       | A                   | 1.02  | 0.22                            | 0.65                       | NA                                       | No exceedence          |
| VOC                    | Benzene     | 11/30/98       | ESE                                     | E                 | 0.99                                      | A                   | 1.47  | 0.48                            | 0.65                       | NA                                       | No exceedence          |
| VOC                    | Benzene     | 12/03/98       | WSW                                     | C                 | 1.63                                      | D                   | 1.95  | 0.32                            | 0.65                       | NA                                       | No exceedence          |
| VOC                    | Benzene     | 12/06/98       | WNW                                     | A                 | 2.84                                      | F                   | 2.43  | NA                              | 0.65                       | NA                                       | No exceedence          |
| VOC                    | Benzene     | 12/09/98       | NNW                                     | В                 | 2.24                                      | F                   | 2.14  | NA                              | 0.65                       | NA                                       | No exceedence          |
| VOC                    | Benzene     | 12/12/98       | NW                                      | В                 | 3.35                                      | F                   | 2.97  | NA                              | 0.65                       | NA                                       | No exceedence          |
| VOC                    | Benzene     | 12/15/98       | NNW                                     | В                 | 2.91                                      | F                   | 2.65  | NA                              | 0.65                       | NA                                       | No exceedence          |

Only daily maximum upwind and downwind values were used.

WSW: West-southwest SW: Southwest SSW: South-southwest

<sup>&</sup>lt;sup>1</sup>Direction wind is from.

<sup>&</sup>lt;sup>2</sup> See Subsection 3.1.1.1

#### Table 3-15

### Summary of Maximum Concentrations Hunters Point Naval Shipyard

San Francisco, California

| Analytical<br>Category | Constituent                 | Sample<br>Date | Predominant<br>Wind<br>Direction <sup>1</sup> | Upwind<br>Station | Upwind<br>Analytical<br>Result<br>(ug/m³) | Downwind<br>Station | Downwind<br>Analytical<br>Result<br>(ug/m³) | TO RECEIVE DESCRIPTION | Action<br>Level<br>(ug/m³) | Action<br>Level<br>Exceedance<br>(ug/m³) | Comment                           |
|------------------------|-----------------------------|----------------|---|-------------------|---|---------------------|---|------------------------|----------------------------|--|-----------------------------------|
| VOC                    | Benzene                     | 12/18/98       | S   | С                 | 1.44                                      | В                   | 1.50  | 0.06                   | 0.65                       | NA                                       | No exceedence                     |
| VOC                    | Benzene                     | 12/21/98       | N   | В                 | 2.49                                      | C                   | 2.78  | 0.29                   | 0.65                       | NA                                       | No exceedence                     |
| VOC                    | Benzene                     | 12/27/98       | NE  | D                 | 3.26                                      | F                   | 3.23  | NA                     | 0.65                       | NA                                       | No exceedence                     |
| VOC                    | Benzene                     | 12/30/98       | wsw   | С                 | 1.92                                      | D                   | 1,76  | NA                     | 0.65                       | NA                                       | No exceedence                     |
| The Phil               |                             |                |   | ija Horjalah      |   | <b>斯拉里和特里</b> 巴達    |   | 170-00-270-21-6        |                            | Name of the state of                     |                                   |
| SVOC                   | Bis(2-ethylhexyl) phthalate | 11/24/98       | sw  | F                 | ND  | E                   | 0.032                                       | 0.032                  | 0.018                      | 0.012                                    | Refer to<br>Subsection<br>3.1.2.5 |
| SVOC                   | Bis(2-ethylhexyl) phthalate | 12/12/98       | NW  | В                 | ND  | D                   | 0.019                                       | 0.019                  | 0.018                      | 0.001                                    | Refer to<br>Subsection<br>3.1.2.5 |
|                        | Bis(2-ethylhexyl)           |                |   | 12-11             |   |                     |   |                        |                            |  |                                   |
| SVOC                   | phthalate                   | 12/21/98       | N   | D                 | 0.123                                     | F                   | ND  | NA                     | 0.018                      | NA                                       | No exceedence                     |
|                        |                             | a) 10th 14th   |   |                   |   |                     |   |                        |                            |  |                                   |
| Metals                 | Manganese                   | 10/19/98       | WSW   | С                 | 0.062                                     | E                   | 0.046                                       | NA                     | 0.05                       | NA                                       | No exceedence                     |
| Metals                 | Manganese                   | 11/09/98       | NW  | В                 | ND  | F                   | 0.017                                       | 0.017                  | 0.05                       | NA                                       | No exceedence                     |
| Metals                 | Manganese                   | 11/12/98       | NNE   | В                 | 0.016                                     | C                   | 0.066                                       | 0.050                  | 0.05                       | 0.000                                    | No exceedence                     |
| Metals                 | Manganese                   | 11/18/98       | NNE   | В                 | 0.021                                     | С                   | 0.123                                       | 0.102                  | 0.05                       | 0.052                                    | Refer to<br>Subsection<br>3.1.3.3 |
| Metals                 | Manganese                   | 11/24/98       | SW  | C                 | 0.021                                     | В                   | 0.123                                       | NA                     | 0.05                       | NA NA                                    | No exceedence                     |
| Metals                 | Manganese                   | 12/09/98       | NNW   | В                 | 0.028                                     | F                   | 0.038                                       | 0,010                  | 0.05                       | NA NA                                    | No exceedence                     |
|                        |                             |                |   |                   |   |                     |   |                        |                            |  | Refer to<br>Subsection            |
| Metals                 | Manganese                   | 12/21/98       | N   | D                 | 0.045                                     | F                   | 0.103                                       | 0.058                  | 0.05                       | 0.008                                    | 3.1.3.3                           |

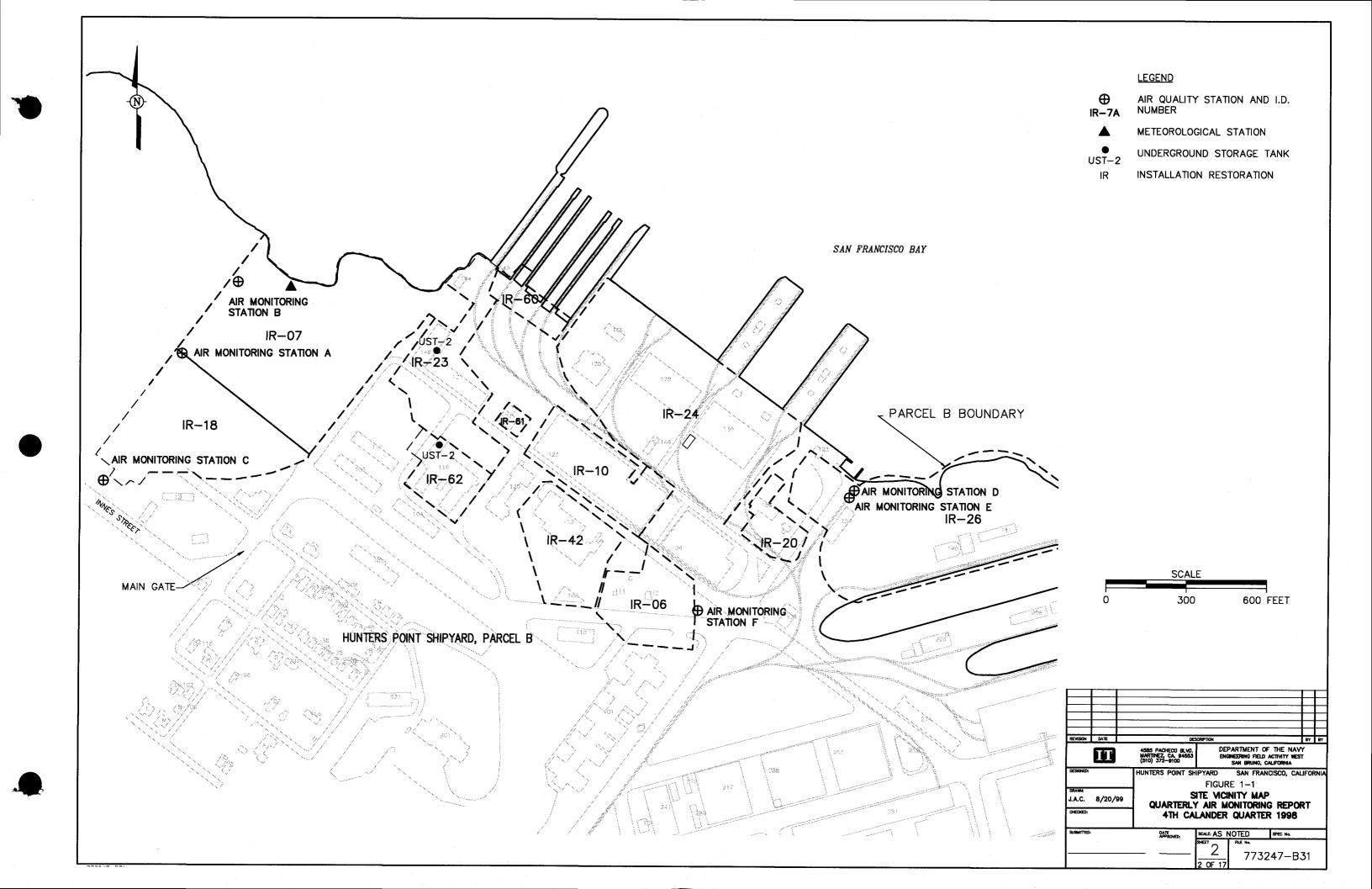
Only daily maximum upwind and downwind values were used.

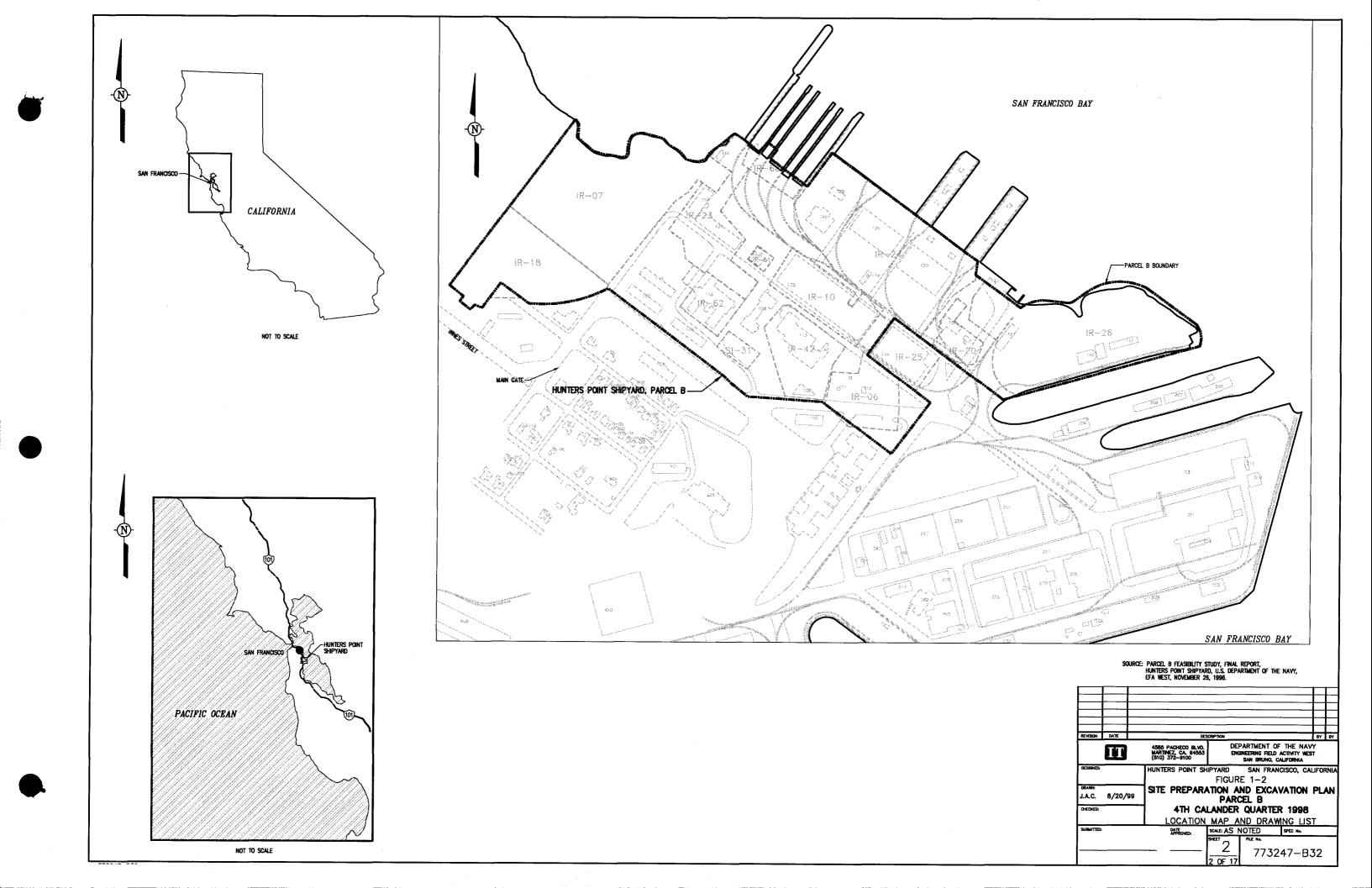
<sup>1</sup>Direction wind is from.

WSW: West-southwest SW: Southwest SSW: South-southwest

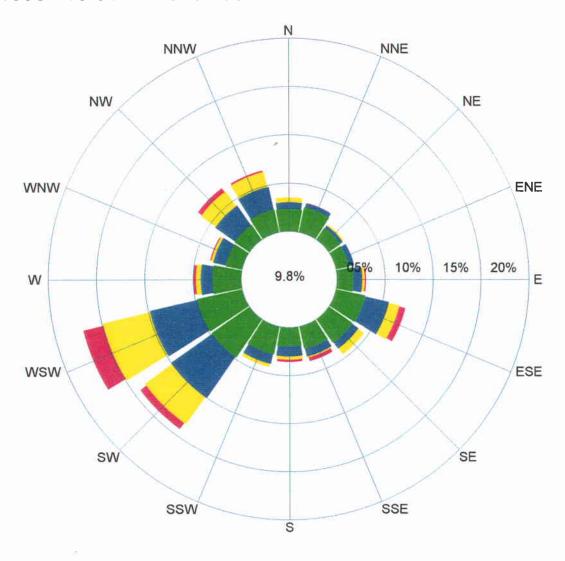
<sup>&</sup>lt;sup>2</sup> See Subsection 3.1.1.1

### **FIGURES**





1998 10/01 Time: 01:00 ---- 1998 12/31 Time: 24:00



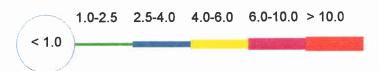


FIGURE 5-1

1998 10/01 Time: 01:00 ---- 1998 10/31 Time: 24:00

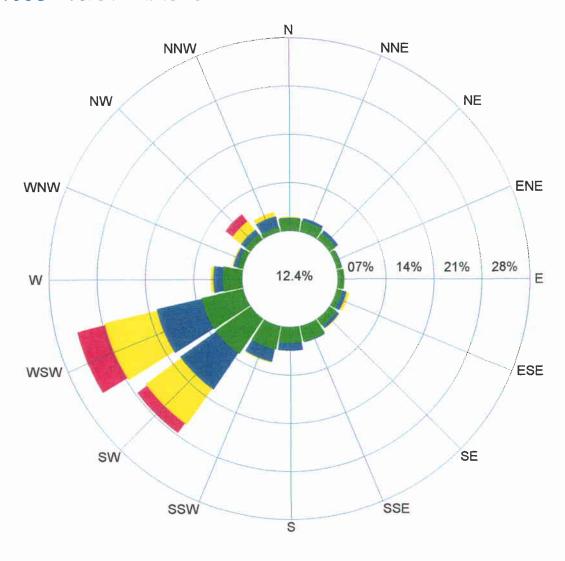
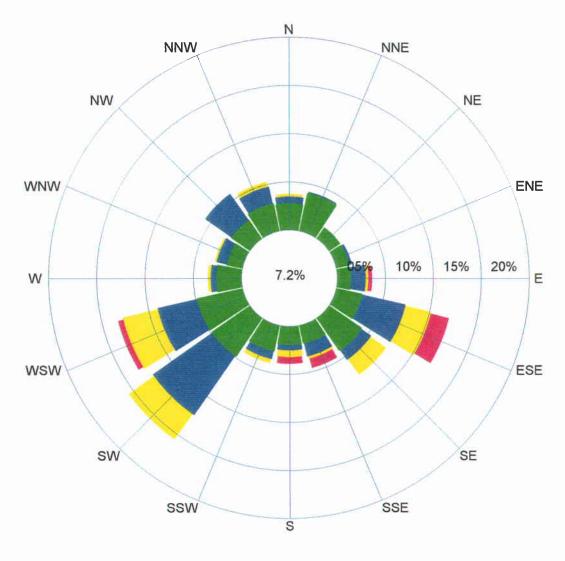




FIGURE 5-2

1998 11/01 Time: 01:00 ----- 1998 11/30 Time: 24:00



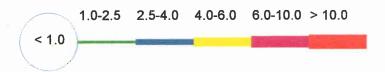
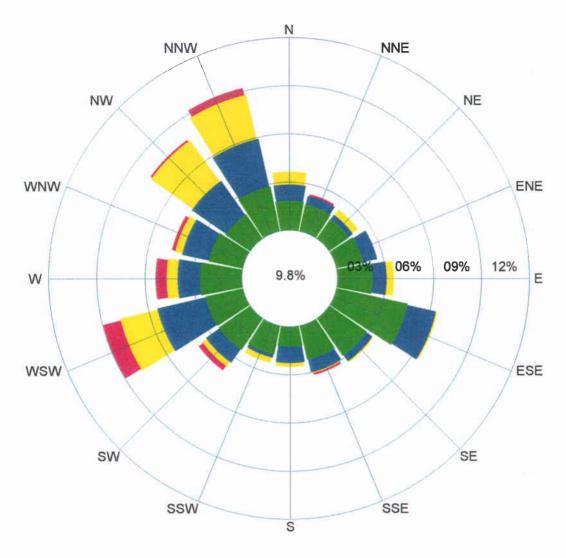


FIGURE 5-3

1998 12/01 Time: 01:00 ---- 1998 12/31 Time: 24:00



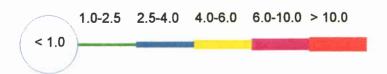


FIGURE 5-4

#### **APPENDIX A**

#### SUMMARY OF LABORATORY ANALYTICAL RESULTS VOLATILE ORGANIC COMPOUNDS

| grander to the control of the contro |         |                 |                      |
|--|---------|-----------------|----------------------|
| Compound   | Result. | Date<br>Sampled | Station              |
| 1,1-DICHLOROETHENE   | 0.200   | 10/1/98         | Α                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/1/98         | В                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/1/98         | C                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/1/98         | D                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/1/98         | E                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/1/98         | $\mathbf{F}_{\perp}$ |
| 1,1-DICHLOROETHENE   | 0.200   | 10/1/98         | FB                   |
| 1,1-DICHLOROETHENE   | 0.200   | 10/4/98         | Α                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/4/98         | В                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/4/98         | <b>C</b>             |
| 1,1-DICHLOROETHENE   | 0.200   | 10/4/98         | D                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/4/98         | F                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/4/98         | FB                   |
| 1,1-DICHLOROETHENE   | 0.200   | 10/7/98         | Α                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/7/98         | В                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/7/98         | C                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/7/98         | D                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/7/98         | E                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/7/98         | F                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/7/98         | FB                   |
| 1,1-DICHLOROETHENE   | 0.200   | 10/10/98        | Α                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/10/98        | В                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/10/98        | C                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/10/98        | D                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/10/98        | E                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/10/98        | F                    |
| 1,1-DICHLOROETHENE   | 0.200   | 10/13/98        | A                    |
|  |         |                 |                      |

| Compound           | Commence of the Res | Date Sampled | Satio    |   |
|--------------------|---------------------|--------------|----------|---|
| 1,1-DICHLOROETHENE | 0.20                | 00 10/13/98  | В        |   |
| 1,1-DICHLOROETHENE | 0.20                | 00 10/13/98  | C        |   |
| 1,1-DICHLOROETHENE | 0.20                | 00 10/13/98  | D        |   |
| 1,1-DICHLOROETHENE | 0.2                 | 00 10/13/98  | F        |   |
| 1,1-DICHLOROETHENE | 0.2                 | 00 10/13/98  | FB       |   |
| 1,1-DICHLOROETHENE | 0.2                 | 00 10/16/98  | Α        |   |
| 1,1-DICHLOROETHENE | 0.2                 | 00 10/16/98  | В        |   |
| 1,1-DICHLOROETHENE | 0.2                 | 00 10/16/98  | C        |   |
| 1,1-DICHLOROETHENE | 0.2                 | 00 10/16/98  | D        |   |
| 1,1-DICHLOROETHENE | 0.2                 | 00 10/16/98  | E        |   |
| 1,1-DICHLOROETHENE | 0.2                 | 00 10/16/98  | F        |   |
| 1,1-DICHLOROETHENE | 0.2                 | 00 10/16/98  | FB       |   |
| 1,1-DICHLOROETHENE | 0.2                 | 00 10/19/98  | A        |   |
| 1,1-DICHLOROETHENE | 0.2                 | 00 10/19/98  | В        |   |
| 1,1-DICHLOROETHENE | 0.2                 | 00 10/19/98  | C        |   |
| 1,1-DICHLOROETHENE | 0.2                 | 10/19/98     | D        |   |
| 1,1-DICHLOROETHENE | 0.2                 | 10/19/98     | E        |   |
| 1,1-DICHLOROETHENE | 0.2                 | 10/19/98     | F        |   |
| 1,1-DICHLOROETHENE | 0.2                 | 200 10/22/98 | Α        |   |
| 1,1-DICHLOROETHENE | 0.2                 | 200 10/22/98 | В        |   |
| 1,1-DICHLOROETHENE | 0.2                 | 200 10/22/98 | <b>C</b> |   |
| 1,1-DICHLOROETHENE | 0.2                 | 200 10/22/98 | D        |   |
| 1,1-DICHLOROETHENE | 0.2                 | 200 10/22/98 | F        |   |
| 1,1-DICHLOROETHENE | 0.2                 | 200 10/22/98 | FB       |   |
| 1,1-DICHLOROETHENE | 0.2                 | 200 10/25/98 | <b>A</b> |   |
| 1,1-DICHLOROETHENE | 0.2                 | 200 10/25/98 | В        | _ |
| 1,1-DICHLOROETHENE | 0.2                 | 200 10/25/98 | D        |   |
|                    |                     |              |          |   |

| Compound           | Result | Date of Sampled | Station :  |
|--------------------|--------|-----------------|------------|
| 1,1-DICHLOROETHENE | 0.200  | 10/25/98        | E          |
| 1,1-DICHLOROETHENE | 0.200  | 10/25/98        | F          |
| 1,1-DICHLOROETHENE | 0.200  | 10/25/98        | FB         |
| 1,1-DICHLOROETHENE | 0.200  | 10/31/98        | Α          |
| 1,1-DICHLOROETHENE | 0.200  | 10/31/98        | В          |
| 1,1-DICHLOROETHENE | 0.200  | 10/31/98        | C          |
| 1,1-DICHLOROETHENE | 0.200  | 10/31/98        | D          |
| 1,1-DICHLOROETHENE | 0.200  | 10/31/98        | F          |
| 1,1-DICHLOROETHENE | 0.200  | 10/31/98        | FB         |
| 1,1-DICHLOROETHENE | 0.200  | 11/3/98         | . <b>A</b> |
| 1,1-DICHLOROETHENE | 0.200  | 11/3/98         | В          |
| 1,1-DICHLOROETHENE | 0.200  | 11/3/98         | C          |
| 1,1-DICHLOROETHENE | 0.200  | 11/3/98         | D          |
| 1,1-DICHLOROETHENE | 0.200  | 11/3/98         | F          |
| 1,1-DICHLOROETHENE | 0.200  | 11/3/98         | FB         |
| 1,1-DICHLOROETHENE | 0.200  | 11/6/98         | Α          |
| 1,1-DICHLOROETHENE | 0.200  | 11/6/98         | В          |
| 1,1-DICHLOROETHENE | 0.200  | 11/6/98         | C          |
| 1,1-DICHLOROETHENE | 0.200  | 11/6/98         | D          |
| 1,1-DICHLOROETHENE | 0.200  | 11/6/98         | E          |
| 1,1-DICHLOROETHENE | 0.200  | 11/6/98         | F          |
| 1,1-DICHLOROETHENE | 0.200  | 11/9/98         | Α          |
| 1,1-DICHLOROETHENE | 0.200  | 11/9/98         | В          |
| 1,1-DICHLOROETHENE | 0.200  | 11/9/98         | C          |
| 1,1-DICHLOROETHENE | 0.200  | 11/9/98         | <b>D</b>   |
| 1,1-DICHLOROETHENE | 0.200  | 11/9/98         | E          |
| 1,1-DICHLOROETHENE | 0.200  | 11/9/98         | F          |
|                    |        |                 |            |

| Compound 2         | Result a | Sampled 1 | Station          |   |
|--------------------|----------|-----------|------------------|---|
| 1,1-DICHLOROETHENE | 0.200    | 11/9/98   | FB               |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/12/98  | Α                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/12/98  | В                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/12/98  | C                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/12/98  | D                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/12/98  | Е                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/12/98  | F                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/12/98  | FB               |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/15/98  | Α                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/15/98  | В                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/15/98  | C                | _ |
| 1,1-DICHLOROETHENE | 0.200    | 11/15/98  | D                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/15/98  | E                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/15/98  | <b>F</b> .       |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/18/98  | Α                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/18/98  | В                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/18/98  | C                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/18/98  | D                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/18/98  | E                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/18/98  | F                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/18/98  | FB               |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/21/98  | Α                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/21/98  | В                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/21/98  | C                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/21/98  | D                |   |
| 1,1-DICHLOROETHENE | 0.200    | 11/21/98  | $\mathbf{E}^{+}$ | _ |
| 1,1-DICHLOROETHENE | 0.200    | 11/21/98  | F                |   |
|                    |          |           |                  |   |

| Compound           | Result | Date:<br>Sampled | Station          |
|--------------------|--------|------------------|------------------|
| 1,1-DICHLOROETHENE | 0.200  | 11/21/98         | FB               |
| 1,1-DICHLOROETHENE | 0.200  | 11/30/98         | Α                |
| 1,1-DICHLOROETHENE | 0.200  | 11/30/98         | В                |
| 1,1-DICHLOROETHENE | 0.200  | 11/30/98         | $\mathbf{C}^{r}$ |
| 1,1-DICHLOROETHENE | 0.200  | 11/30/98         | D                |
| 1,1-DICHLOROETHENE | 0.200  | 11/30/98         | E                |
| 1,1-DICHLOROETHENE | 0.200  | 11/30/98         | F                |
| 1,1-DICHLOROETHENE | 0.200  | 12/3/98          | · <b>A</b>       |
| 1,1-DICHLOROETHENE | 0.200  | 12/3/98          | В                |
| 1,1-DICHLOROETHENE | 0.200  | 12/3/98          | C                |
| 1,1-DICHLOROETHENE | 0.200  | 12/3/98          | D                |
| 1,1-DICHLOROETHENE | 0.200  | 12/3/98          | <b>F</b>         |
| 1,1-DICHLOROETHENE | 0.200  | 12/6/98          | Α                |
| 1,1-DICHLOROETHENE | 0.200  | 12/6/98          | В                |
| 1,1-DICHLOROETHENE | 0.200  | 12/6/98          | C                |
| 1,1-DICHLOROETHENE | 0.200  | 12/6/98          | D                |
| 1,1-DICHLOROETHENE | 0.200  | 12/6/98          | F                |
| 1,1-DICHLOROETHENE | 0.200  | 12/9/98          | Α                |
| 1,1-DICHLOROETHENE | 0.200  | 12/9/98          | В                |
| 1,1-DICHLOROETHENE | 0.200  | 12/9/98          | C                |
| 1,1-DICHLOROETHENE | 0.200  | 12/9/98          | D                |
| 1,1-DICHLOROETHENE | 0.200  | 12/9/98          | F                |
| 1,1-DICHLOROETHENE | 0.200  | 12/12/98         | Α                |
| 1,1-DICHLOROETHENE | 0.200  | 12/12/98         | В                |
| 1,1-DICHLOROETHENE | 0.200  | 12/12/98         | C                |
| 1,1-DICHLOROETHENE | 0.200  | 12/12/98         | D                |
| 1,1-DICHLOROETHENE | 0.200  | 12/12/98         | Е                |

IT Job No. 773247

ug/m3 = micrograms / cubic meter

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| Compound           | Result | Date A Samplet | Station ** |
|--------------------|--------|----------------|------------|
| 1,1-DICHLOROETHENE | 0.200  | 12/12/98       | F          |
| 1,1-DICHLOROETHENE | 0.200  | 12/12/98       | FB         |
| 1,1-DICHLOROETHENE | 0.200  | 12/15/98       | Α          |
| 1,1-DICHLOROETHENE | 0.200  | 12/15/98       | В          |
| 1,1-DICHLOROETHENE | 0.200  | 12/15/98       | С          |
| 1,1-DICHLOROETHENE | 0.200  | 12/15/98       | D          |
| 1,1-DICHLOROETHENE | 0.200  | 12/15/98       | E          |
| 1,1-DICHLOROETHENE | 0.200  | 12/15/98       | F          |
| 1,1-DICHLOROETHENE | 0.200  | 12/18/98       | Α          |
| 1,1-DICHLOROETHENE | 0.200  | 12/18/98       | В          |
| 1,1-DICHLOROETHENE | 0.200  | 12/18/98       | C          |
| 1,1-DICHLOROETHENE | 0.200  | 12/18/98       | D          |
| 1,1-DICHLOROETHENE | 0.200  | 12/18/98       | F          |
| 1,1-DICHLOROETHENE | 0.200  | 12/18/98       | FB         |
| 1,1-DICHLOROETHENE | 0.200  | 12/21/98       | <b>A</b>   |
| 1,1-DICHLOROETHENE | 0.200  | 12/21/98       | <b>B</b>   |
| 1,1-DICHLOROETHENE | 0.200  | 12/21/98       | <b>C</b> / |
| 1,1-DICHLOROETHENE | 0.200  | 12/21/98       | D          |
| 1,1-DICHLOROETHENE | 0.200  | 12/21/98       | Е          |
| 1,1-DICHLOROETHENE | 0.200  | 12/21/98       | F          |
| 1,1-DICHLOROETHENE | 0.200  | 12/21/98       | FB         |
| 1,1-DICHLOROETHENE | 0.200  | 12/27/98       | Α          |
| 1,1-DICHLOROETHENE | 0.200  | 12/27/98       | В          |
| 1,1-DICHLOROETHENE | 0.200  | 12/27/98       | C          |
| 1,1-DICHLOROETHENE | 0.200  | 12/27/98       | <b>D</b>   |
| 1,1-DICHLOROETHENE | 0.200  | 12/27/98       | F          |
| 1,1-DICHLOROETHENE | 0.200  | 12/30/98       | A          |
|                    |        |                |            |

IT Job No. 773247

ug/m3 = micrograms / cubic meter

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| Compound           | Result | Date a Sampled | Station: |
|--------------------|--------|----------------|----------|
| 1,1-DICHLOROETHENE | 0.200  | 12/30/98       | В        |
| 1,1-DICHLOROETHENE | 0.200  | 12/30/98       | <b>C</b> |
| 1,1-DICHLOROETHENE | 0.200  | 12/30/98       | D        |
| 1,1-DICHLOROETHENE | 0.200  | 12/30/98       | F        |
| 1,1-DICHLOROETHENE | 0.200  | 12/30/98       | FB       |
| 1,2-DICHLOROETHANE | 0.200  | 10/1/98        | <b>A</b> |
| 1,2-DICHLOROETHANE | 0.200  | 10/1/98        | В        |
| 1,2-DICHLOROETHANE | 0.200  | 10/1/98        | С        |
| 1,2-DICHLOROETHANE | 0.200  | 10/1/98        | D        |
| 1,2-DICHLOROETHANE | 0.200  | 10/1/98        | E        |
| 1,2-DICHLOROETHANE | 0.200  | 10/1/98        | <b>F</b> |
| 1,2-DICHLOROETHANE | 0.200  | 10/1/98        | FB       |
| 1,2-DICHLOROETHANE | 0.200  | 10/4/98        | Α        |
| 1,2-DICHLOROETHANE | 0.200  | 10/4/98        | В        |
| 1,2-DICHLOROETHANE | 0.200  | 10/4/98        | C        |
| 1,2-DICHLOROETHANE | 0.200  | 10/4/98        | D        |
| 1,2-DICHLOROETHANE | 0.200  | 10/4/98        | F        |
| 1,2-DICHLOROETHANE | 0.200  | 10/4/98        | FB       |
| 1,2-DICHLOROETHANE | 0.200  | 10/7/98        | A        |
| 1,2-DICHLOROETHANE | 0.200  | 10/7/98        | В        |
| 1,2-DICHLOROETHANE | 0.200  | 10/7/98        | C        |
| 1,2-DICHLOROETHANE | 0.200  | 10/7/98        | D        |
| 1,2-DICHLOROETHANE | 0.200  | 10/7/98        | E        |
| 1,2-DICHLOROETHANE | 0.200  | 10/7/98        | F        |
| 1,2-DICHLOROETHANE | 0.200  | 10/7/98        | FB       |
| 1,2-DICHLOROETHANE | 0.200  | 10/10/98       | Α        |
| 1,2-DICHLOROETHANE | 0.200  | 10/10/98       | В        |

| Compound           | Result | Campled Sampled | Station # |   |
|--------------------|--------|-----------------|-----------|---|
| 1,2-DICHLOROETHANE | 0.200  | 10/10/98        | С         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/10/98        | D         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/10/98        | E         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/10/98        | F         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/13/98        | Α         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/13/98        | В         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/13/98        | C         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/13/98        | D         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/13/98        | F         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/13/98        | FB        |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/16/98        | Α         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/16/98        | В         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/16/98        | C         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/16/98        | D         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/16/98        | E         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/16/98        | F         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/16/98        | FB        |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/19/98        | Α         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/19/98        | В         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/19/98        | C         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/19/98        | D         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/19/98        | E         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/19/98        | F         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/22/98        | Α         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/22/98        | В         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/22/98        | C         |   |
| 1,2-DICHLOROETHANE | 0.200  | 10/22/98        | D         |   |
|                    |        |                 |           | - |

| Compound           | Result | Date<br>Sampled | Station 3.     |
|--------------------|--------|-----------------|----------------|
| 1,2-DICHLOROETHANE | 0.200  | 10/22/98        | F              |
| 1,2-DICHLOROETHANE | 0.200  | 10/22/98        | FB             |
| 1,2-DICHLOROETHANE | 0.200  | 10/25/98        | Α              |
| 1,2-DICHLOROETHANE | 0.200  | 10/25/98        | В              |
| 1,2-DICHLOROETHANE | 0.200  | 10/25/98        | D              |
| 1,2-DICHLOROETHANE | 0.200  | 10/25/98        | E              |
| 1,2-DICHLOROETHANE | 0.200  | 10/25/98        | F              |
| 1,2-DICHLOROETHANE | 0.200  | 10/25/98        | FB             |
| 1,2-DICHLOROETHANE | 0.200  | 10/31/98        | Α              |
| 1,2-DICHLOROETHANE | 0.200  | 10/31/98        | В              |
| 1,2-DICHLOROETHANE | 0.200  | 10/31/98        | C              |
| 1,2-DICHLOROETHANE | 0.200  | 10/31/98        | . · <b>D</b> . |
| 1,2-DICHLOROETHANE | 0.200  | 10/31/98        | F              |
| 1,2-DICHLOROETHANE | 0.200  | 10/31/98        | FB             |
| 1,2-DICHLOROETHANE | 0.200  | 11/3/98         | Α              |
| 1,2-DICHLOROETHANE | 0.200  | 11/3/98         | В              |
| 1,2-DICHLOROETHANE | 0.200  | 11/3/98         | C              |
| 1,2-DICHLOROETHANE | 0.200  | 11/3/98         | D              |
| 1,2-DICHLOROETHANE | 0.200  | 11/3/98         | <b>F</b> ,     |
| 1,2-DICHLOROETHANE | 0.200  | 11/3/98         | FB             |
| 1,2-DICHLOROETHANE | 0.200  | 11/6/98         | Α              |
| 1,2-DICHLOROETHANE | 0.200  | 11/6/98         | <b>B</b>       |
| 1,2-DICHLOROETHANE | 0.200  | 11/6/98         | C              |
| 1,2-DICHLOROETHANE | 0.200  | 11/6/98         | D              |
| 1,2-DICHLOROETHANE | 0.200  | 11/6/98         | E              |
| 1,2-DICHLOROETHANE | 0.200  | 11/6/98         | F              |
| 1,2-DICHLOROETHANE | 0.200  | 11/9/98         | A              |
|                    |        |                 |                |

|                             | Marie Company of the American  | A 1981 OF 1881 | Date Town | 1000         |         |  |
|-----------------------------|--|----------------|-----------|--------------|---------|--|
| Compound                    |  | Result (2)     | Sampled   |              | Station |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/9/98   |              | В       |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/9/98   |              | C       |  |
| 1,2-DICHLOROE <b>TH</b> ANE |  | 0.200          | 11/9/98   |              | D       |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/9/98   |              | E       |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/9/98   |              | F       |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/9/98   |              | FB      |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/12/98  |              | Α       |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/12/98  |              | В       |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/12/98  |              | C       |  |
| 1,2-DICHLOROETHANE          | a de la companya de l | 0.200          | 11/12/98  |              | D       |  |
| 1,2-DICHLOROETHANE          | - <del></del>  | 0.200          | 11/12/98  |              | E       |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/12/98  |              | F       |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/12/98  |              | FB      |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/15/98  |              | Α       |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/15/98  |              | В       |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/15/98  |              | C       |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/15/98  |              | D       |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/15/98  |              | E       |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/15/98  | 3            | F       |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/18/98  |              | Α       |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/18/98  |              | В       |  |
| 1,2-DICHL <b>O</b> ROETHANE |  | 0.200          | 11/18/98  |              | C       |  |
| 1,2-DICHL <b>OR</b> OETHANE |  | 0.200          | 11/18/98  |              | D       |  |
| 1,2-DICHL <b>OR</b> OETHANE |  | 0.200          | 11/18/98  |              | E       |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/18/98  | 47           | F       |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/18/98  |              | FB      |  |
| 1,2-DICHLOROETHANE          |  | 0.200          | 11/21/98  | <b>103.1</b> | A       |  |
|                             |  |                |           |              |         |  |

| Section of Experimental Experim |        | Date East East | The second secon |
|--|--------|----------------|--|
| Compound   | Result | Sampled        | Station :  |
| 1,2-DICHLOROETHANE   | 0.200  | 11/21/98       | В  |
| 1,2-DICHLOROETHANE   | 0.200  | 11/21/98       | С  |
| 1,2-DICHLOROETHANE   | 0.200  | 11/21/98       | D  |
| 1,2-DICHLOROETHANE   | 0.200  | 11/21/98       | E  |
| 1,2-DICHLOROETHANE   | 0.200  | 11/21/98       | <b>F</b>   |
| 1,2-DICHLOROETHANE   | 0.200  | 11/21/98       | FB   |
| 1,2-DICHLOROETHANE   | 0.200  | 11/30/98       | A  |
| 1,2-DICHLOROETHANE   | 0.200  | 11/30/98       | В  |
| 1,2-DICHLOROETHANE   | 0.200  | 11/30/98       | С  |
| 1,2-DICHLOROETHANE   | 0.200  | 11/30/98       | . <b>D</b>   |
| 1,2-DICHLOROETHANE   | 0.200  | 11/30/98       | Е  |
| 1,2-DICHLOROETHANE   | 0.200  | 11/30/98       | F  |
| 1,2-DICHLOROETHANE   | 0.200  | 12/3/98        | A  |
| 1,2-DICHLOROETHANE   | 0.200  | 12/3/98        | В  |
| 1,2-DICHLOROETHANE   | 0.200  | 12/3/98        | $\mathbf{C}_{\mathbf{c}}$  |
| 1,2-DICHLOROETHANE   | 0.200  | 12/3/98        | D  |
| 1,2-DICHLOROETHANE   | 0.200  | 12/3/98        | F  |
| 1,2-DICHLOROETHANE   | 0.200  | 12/6/98        | A  |
| 1,2-DICHLOROETHANE   | 0.200  | 12/6/98        | В  |
| 1,2-DICHLOROETHANE   | 0.200  | 12/6/98        | C  |
| 1,2-DICHLOROETHANE   | 0.200  | 12/6/98        | D  |
| 1,2-DICHLOROETHANE   | 0.200  | 12/6/98        | F  |
| 1,2-DICHLOROETHANE   | 0.200  | 12/9/98        | <b>A</b>   |
| 1,2-DICHLOROETHANE   | 0.200  | 12/9/98        | В  |
| 1,2-DICHLOROETHANE   | 1.050  | 12/9/98        | С  |
| 1,2-DICHLOROETHANE   | 0.200  | 12/9/98        | D  |
| 1,2-DICHLOROETHANE   | 0.200  | 12/9/98        | F  |
|  |        |                |  |

1T Job No. 773247

ug/m3 = micrograms / cubic meter

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| Compound.          | Post Result 2 | Date - Sampled - Sampled | 2 Siaton |
|--------------------|---------------|--------------------------|----------|
| 1,2-DICHLOROETHANE | 0.200         | 12/12/98                 | Α        |
| 1,2-DICHLOROETHANE | 0.200         | 12/12/98                 | В        |
| 1,2-DICHLOROETHANE | 0.200         | 12/12/98                 | C        |
| 1,2-DICHLOROETHANE | 0.200         | 12/12/98                 | D        |
| 1,2-DICHLOROETHANE | 0.200         | 12/12/98                 | E        |
| 1,2-DICHLOROETHANE | 0.200         | 12/12/98                 | F        |
| 1,2-DICHLOROETHANE | 0.200         | 12/12/98                 | FB       |
| 1,2-DICHLOROETHANE | 0.200         | 12/15/98                 | A        |
| 1,2-DICHLOROETHANE | 0.200         | 12/15/98                 | В        |
| 1,2-DICHLOROETHANE | 0.200         | 12/15/98                 | C        |
| 1,2-DICHLOROETHANE | 0.200         | 12/15/98                 | D        |
| 1,2-DICHLOROETHANE | 0.200         | 12/15/98                 | E        |
| 1,2-DICHLOROETHANE | 0.200         | 12/15/98                 | F        |
| 1,2-DICHLOROETHANE | 0.200         | 12/18/98                 | Α        |
| 1,2-DICHLOROETHANE | 0.200         | 12/18/98                 | В        |
| 1,2-DICHLOROETHANE | 0.200         | 12/18/98                 | C        |
| 1,2-DICHLOROETHANE | 0.200         | 12/18/98                 | D        |
| 1,2-DICHLOROETHANE | 0.200         | 12/18/98                 | F        |
| 1,2-DICHLOROETHANE | 0.200         | 12/18/98                 | FB       |
| 1,2-DICHLOROETHANE | 0.200         | 12/21/98                 | Α        |
| 1,2-DICHLOROETHANE | 0.200         | 12/21/98                 | В        |
| 1,2-DICHLOROETHANE | 0.200         | 12/21/98                 | C        |
| 1,2-DICHLOROETHANE | 0.200         | 12/21/98                 | D        |
| 1,2-DICHLOROETHANE | 0.200         | 12/21/98                 | E        |
| 1,2-DICHLOROETHANE | 0.200         | 12/21/98                 | F        |
| 1,2-DICHLOROETHANE | 0.200         | 12/21/98                 | FB       |
| 1,2-DICHLOROETHANE | 0.200         | 12/27/98                 | Α        |
|                    |               |                          |          |

| Compound           | Result | Date Sampled | Station 4. |
|--------------------|--------|--------------|------------|
| 1,2-DICHLOROETHANE | 0.200  | 12/27/98     | В          |
| 1,2-DICHLOROETHANE | 0.200  | 12/27/98     | C          |
| 1,2-DICHLOROETHANE | 0.200  | 12/27/98     | D          |
| 1,2-DICHLOROETHANE | 0.200  | 12/27/98     | F          |
| 1,2-DICHLOROETHANE | 0.200  | 12/30/98     | Α          |
| 1,2-DICHLOROETHANE | 0.200  | 12/30/98     | В          |
| 1,2-DICHLOROETHANE | 0.200  | 12/30/98     | C          |
| 1,2-DICHLOROETHANE | 0.200  | 12/30/98     | D          |
| 1,2-DICHLOROETHANE | 0.200  | 12/30/98     | <b>F</b> . |
| 1,2-DICHLOROETHANE | 0.200  | 12/30/98     | FB         |
| BENZENE            | 0.800  | 10/1/98      | Α          |
| BENZENE            | 0.640  | 10/1/98      | В          |
| BENZENE            | 0.830  | 10/1/98      | · C        |
| BENZENE            | 0.540  | 10/1/98      | D          |
| BENZENE            | 1.180  | 10/1/98      | E          |
| BENZENE            | 1.210  | 10/1/98      | F          |
| BENZENE            | 0.150  | 10/1/98      | FB         |
| BENZENE            | 2.330  | 10/4/98      | Α          |
| BENZENE            | 2.940  | 10/4/98      | В          |
| BENZENE            | 3.260  | 10/4/98      | С          |
| BENZENE            | 3.000  | 10/4/98      | D          |
| BENZENE            | 2.720  | 10/4/98      | <b>F</b>   |
| BENZENE            | 0.150  | 10/4/98      | FB         |
| BENZENE            | 0.960  | 10/7/98      | Α          |
| BENZENE            | 0.670  | 10/7/98      | В          |
| BENZENE            | 1.150  | 10/7/98      | C          |
| BENZENE            | 0.480  | 10/7/98      | D          |
|                    |        |              |            |

|          |              |           |          | properties. |
|----------|--------------|-----------|----------|-------------|
| Compound | C Kesulia 14 | Sampled 2 | Station  |             |
| BENZENE  | 0.700        | 10/7/98   | E        |             |
| BENZENE  | 0.800        | 10/7/98   | F        |             |
| BENZENE  | 0.150        | 10/7/98   | FB       |             |
| BENZENE  | 1.470        | 10/10/98  | Α        |             |
| BENZENE  | 1.340        | 10/10/98  | В        |             |
| BENZENE  | 1.470        | 10/10/98  | C        |             |
| BENZENE  | 1.180        | 10/10/98  | D        |             |
| BENZENE  | 1.310        | 10/10/98  | Е        |             |
| BENZENE  | 1.500        | 10/10/98  | F        |             |
| BENZENE  | 1.370        | 10/13/98  | Α        |             |
| BENZENE  | 1.310        | 10/13/98  | В        | _           |
| BENZENE  | 1.630        | 10/13/98  | C        | 1           |
| BENZENE  | 1.310        | 10/13/98  | D        |             |
| BENZENE  | 1.210        | 10/13/98  | F        |             |
| BENZENE  | 0.150        | 10/13/98  | FB       |             |
| BENZENE  | 1.410        | 10/16/98  | Α        |             |
| BENZENE  | 1.250        | 10/16/98  | В        |             |
| BENZENE  | 1.250        | 10/16/98  | С        |             |
| BENZENE  | 1.280        | 10/16/98  | D        |             |
| BENZENE  | 1.210        | 10/16/98  | E        |             |
| BENZENE  | 1.210        | 10/16/98  | F        |             |
| BENZENE  | 0.150        | 10/16/98  | FB       |             |
| BENZENE  | 3.550        | 10/19/98  | <b>A</b> |             |
| BENZENE  | 3.450        | 10/19/98  | В        |             |
| BENZENE  | 3.420        | 10/19/98  | C        |             |
| BENZENE  | 3.230        | 10/19/98  | D        |             |
| BENZENE  | 3.160        | 10/19/98  | E        | -           |
|          |              |           |          |             |

|          | 22.5   |                 |          |
|----------|--------|-----------------|----------|
| Compound | Result | Date<br>Sampled | Station: |
| BENZENE  | 3.550  | 10/19/98        | F        |
| BENZENE  | 1.530  | 10/22/98        | A        |
| BENZENE  | 1.340  | 10/22/98        | В        |
| BENZENE  | 1.500  | 10/22/98        | C        |
| BENZENE  | 1.250  | 10/22/98        | D        |
| BENZENE  | 1.280  | 10/22/98        | F        |
| BENZENE  | 0.150  | 10/22/98        | FB       |
| BENZENE  | 1.630  | 10/25/98        | Α        |
| BENZENE  | 2.140  | 10/25/98        | В        |
| BENZENE  | 2.360  | 10/25/98        | D        |
| BENZENE  | 2.140  | 10/25/98        | Е        |
| BENZENE  | 2.200  | 10/25/98        | F        |
| BENZENE  | 0.150  | 10/25/98        | FB       |
| BENZENE  | 2.620  | 10/31/98        | <b>A</b> |
| BENZENE  | 2.490  | 10/31/98        | В        |
| BENZENE  | 2.750  | 10/31/98        | C        |
| BENZENE  | 2.080  | 10/31/98        | D        |
| BENZENE  | 2.200  | 10/31/98        | F        |
| BENZENE  | 0.150  | 10/31/98        | FB       |
| BENZENE  | 1.790  | 11/3/98         | Α        |
| BENZENE  | 1.820  | 11/3/98         | В        |
| BENZENE  | 2.010  | 11/3/98         | C        |
| BENZENE  | 1.730  | 11/3/98         | D        |
| BENZENE  | 1.500  | 11/3/98         | F        |
| BENZENE  | 0.150  | 11/3/98         | FB       |
| BENZENE  | 1.050  | 11/6/98         | Α        |
| BENZENE  | 0.890  | 11/6/98         | В        |
|          |        |                 |          |

| Compound | Result 4 | DAGE 12 22<br>Sampled: | Station 2 |
|----------|----------|------------------------|-----------|
| BENZENE  | 1.050    | 11/6/98                | C         |
| BENZENE  | 1.600    | 11/6/98                | D         |
| BENZENE  | 0.990    | 11/6/98                | E         |
| BENZENE  | 0.830    | 11/6/98                | F         |
| BENZENE  | 2.040    | 11/9/98                | Α         |
| BENZENE  | 1.980    | 11/9/98                | В         |
| BENZENE  | 2.270    | 11/9/98                | C         |
| BENZENE  | 1.760    | 11/9/98                | D         |
| BENZENE  | 2.140    | 11/9/98                | E         |
| BENZENE  | 1.980    | 11/9/98                | F         |
| BENZENE  | 0.150    | 11/9/98                | FB        |
| BENZENE  | 3.550    | 11/12/98               | A         |
| BENZENE  | 3.550    | 11/12/98               | В         |
| BENZENE  | 3.510    | 11/12/98               | C         |
| BENZENE  | 2.680    | 11/12/98               | D         |
| BENZENE  | 2.880    | 11/12/98               | E         |
| BENZENE  | 2.940    | 11/12/98               | F         |
| BENZENE  | 0.150    | 11/12/98               | FB        |
| BENZENE  | 1.850    | 11/15/98               | Α         |
| BENZENE  | 1.880    | 11/15/98               | В         |
| BENZENE  | 2.170    | 11/15/98               | C         |
| BENZENE  | 1.820    | 11/15/98               | D         |
| BENZENE  | 1.790    | 11/15/ <b>98</b>       | <b>E</b>  |
| BENZENE  | 1.820    | 11/15/98               | F         |
| BENZENE  | 2.880    | 11/18/98               | A         |
| BENZENE  | 2.840    | 11/18/98               | В         |
| BENZENE  | 2.680    | 11/18/98               | С         |

|          | Result | Date Sampled | Station |
|----------|--------|--------------|---------|
| Compound | 2.270  | 11/18/98     | D       |
| BENZENE  | 0.960  | 11/18/98     | E       |
| BENZENE  | 2.650  | 11/18/98     | F       |
| BENZENE  | 0.150  | 11/18/98     | FB      |
| BENZENE  |        | 11/21/98     | A       |
| BENZENE  | 1.020  | 11/21/98     | В       |
| BENZENE  | 0.990  | 11/21/98     | C       |
| BENZENE  | 1.020  | 11/21/98     | D       |
| BENZENE  | 0.800  |              | E       |
| BENZENE  | 0.990  | 11/21/98     | F       |
| BENZENE  | 0.960  | 11/21/98     | FB      |
| BENZENE  | 0.150  | 11/21/98     |         |
| BENZENE  | 1.470  | 11/30/98     | A       |
| BENZENE  | 1.250  | 11/30/98     | В       |
| BENZENE  | 1.470  | 11/30/98     | С       |
| BENZENE  | 1.050  | 11/30/98     | D<br>-  |
| BENZENE  | 0.990  | 11/30/98     | E       |
| BENZENE  | 1.150  | 11/30/98     | F       |
| BENZENE  | 2.010  | 12/3/98      | Α       |
| BENZENE  | 1.820  | 12/3/98      | В       |
| BENZENE  | 1.630  | 12/3/98      | C       |
| BENZENE  | 1.950  | 12/3/98      | D       |
| BENZENE  | 1.850  | 12/3/98      | F       |
| BENZENE  | 2.840  | 12/6/98      | Α       |
| BENZENE  | 2.560  | 12/6/98      | В       |
| BENZENE  | 5.270  | 12/6/98      | C       |
| BENZENE  | 2.300  | 12/6/98      | D       |
| BENZENE  | 2.430  | 12/6/98      | F       |
|          |        |              |         |

| Compound | Results | Dad<br>Sampled | Siation |
|----------|---------|----------------|---------|
| BENZENE  | 2.430   | 12/9/98        | Α       |
| BENZENE  | 2.240   | 12/9/98        | В       |
| BENZENE  | 3.450   | 12/9/98        | C       |
| BENZENE  | 1.920   | 12/9/98        | D       |
| BENZENE  | 2.140   | 12/9/98        | · F     |
| BENZENE  | 3.160   | 12/12/98       | Α       |
| BENZENE  | 3.350   | 12/12/98       | В       |
| BENZENE  | 2.840   | 12/12/98       | С       |
| BENZENE  | 3.070   | 12/12/98       | D       |
| BENZENE  | 3.190   | 12/12/98       | E       |
| BENZENE  | 2.970   | 12/12/98       | F       |
| BENZENE  | 0.150   | 12/12/98       | FB      |
| BENZENE  | 2.910   | 12/15/98       | Α       |
| BENZENE  | 2.910   | 12/15/98       | В       |
| BENZENE  | 2.560   | 12/15/98       | C       |
| BENZENE  | 2.680   | 12/15/98       | D       |
| BENZENE  | 2.520   | 12/15/98       | E       |
| BENZENE  | 2.650   | 12/15/98       | F       |
| BENZENE  | 1.760   | 12/18/98       | Α       |
| BENZENE  | 1.500   | 12/18/98       | В       |
| BENZENE  | 1.440   | 12/18/98       | C       |
| BENZENE  | 1.310   | 12/18/98       | D       |
| BENZENE  | 1.250   | 12/18/98       | F       |
| BENZENE  | 0.150   | 12/18/98       | FB      |
| BENZENE  | 2.620   | 12/21/98       | Α       |
| BENZENE  | 2.490   | 12/21/98       | В       |
| BENZENE  | 2.780   | 12/21/98       | С       |
|          |         |                |         |

|   | Compound          | Result | Date<br>Sampled | Station 1                 |
|---|-------------------|--------|-----------------|---------------------------|
|   | BENZENE           | 2.080  | 12/21/98        | <b>D</b> :                |
|   | BENZENE           | 1.920  | 12/21/98        | E                         |
|   | BENZENE           | 2.300  | 12/21/98        | F                         |
|   | BENZENE           | 0.150  | 12/21/98        | FB                        |
|   | BENZENE           | 3.480  | 12/27/98        | Α                         |
|   | BENZENE           | 3.230  | 12/27/98        | В                         |
|   | BENZENE           | 1.760  | 12/27/98        | C                         |
|   | BENZENE           | 3.260  | 12/27/98        | D                         |
|   | BENZENE           | 3.230  | 12/27/98        | F                         |
|   | BENZENE           | 2.720  | 12/30/98        | A                         |
| - | BENZENE           | 2.620  | 12/30/98        | В                         |
|   | BENZENE           | 1.920  | 12/30/98        | C                         |
|   | BENZENE           | 1.760  | 12/30/98        | D                         |
|   | BENZENE           | 1.440  | 12/30/98        | F                         |
|   | BENZENE           | 0.150  | 12/30/98        | FB                        |
|   | TETRACHLOROETHENE | 0.350  | 10/1/98         | A                         |
|   | TETRACHLOROETHENE | 0.350  | 10/1/98         | В                         |
|   | TETRACHLOROETHENE | 0.350  | 10/1/98         | С                         |
|   | TETRACHLOROETHENE | 0.350  | 10/1/98         | $\mathbf{D}_{\mathbf{q}}$ |
|   | TETRACHLOROETHENE | 0.350  | 10/1/98         | E                         |
|   | TETRACHLOROETHENE | 0.350  | 10/1/98         | F                         |
|   | TETRACHLOROETHENE | 0.350  | 10/1/98         | FB                        |
|   | TETRACHLOROETHENE | 0.350  | 10/4/98         | A                         |
|   | TETRACHLOROETHENE | 0.350  | 10/4/98         | <b>B</b>                  |
|   | TETRACHLOROETHENE | 0.350  | 10/4/98         | С                         |
|   | TETRACHLOROETHENE | 0.350  | 10/4/98         | D                         |
|   | TETRACHLOROETHENE | 0.350  | 10/4/98         | F                         |
|   |                   |        |                 |                           |

| Compound The Compo | Result | Date Sampled | Station |           |
|--|--------|--------------|---------|-----------|
| TETRACHLOROETHENE  | 0.350  | 10/4/98      | FB      | 128010000 |
| TETRACHLOROETHENE  | 0.350  | 10/7/98      | Α       |           |
| TETRACHLOROETHENE  | 0.350  | 10/7/98      | В       |           |
| TETRACHLOROETHENE  | 0.350  | 10/7/98      | C       |           |
| TETRACHLOROETHENE  | 0.350  | 10/7/98      | D       |           |
| TETRACHLOROETHENE  | 0.350  | 10/7/98      | E       |           |
| TETRACHLOROETHENE  | 0.350  | 10/7/98      | F       |           |
| TETRACHLOROETHENE  | 0.350  | 10/7/98      | FB      |           |
| TETRACHLOROETHENE  | 0.350  | 10/10/98     | A       |           |
| TETRACHLOROETHENE  | 0.350  | 10/10/98     | В       |           |
| TETRACHLOROETHENE  | 0.350  | 10/10/98     | C       |           |
| TETRACHLOROETHENE  | 0.350  | 10/10/98     | D       |           |
| TETRACHLOROETHENE  | 0.350  | 10/10/98     | E       |           |
| TETRACHLOROETHENE  | 0.350  | 10/10/98     | F       |           |
| TETRACHLOROETHENE  | 0.350  | 10/13/98     | Α       |           |
| TETRACHLOROETHENE  | 0.350  | 10/13/98     | В       |           |
| TETRACHLOROETHENE  | 0.350  | 10/13/98     | C       |           |
| TETRACHLOROETHENE  | 0.350  | 10/13/98     | D       |           |
| TETRACHLOROETHENE  | 0.350  | 10/13/98     | F       |           |
| TETRACHLOROETHENE  | 0.350  | 10/13/98     | FB      |           |
| TETRACHLOROETHENE  | 0.350  | 10/16/98     | Α       |           |
| TETRACHLOROETHENE  | 0.350  | 10/16/98     | В       |           |
| TETRACHLOROETHENE  | 0.350  | 10/16/98     | C       |           |
| TETRACHLOROETHENE  | 0.350  | 10/16/98     | D       |           |
| TETRACHLOROETHENE  | 0.350  | 10/16/98     | E       |           |
| TETRACHLOROETHENE  | 0.350  | 10/16/98     | F       | _         |
| TETRACHLOROETHENE  | 0.350  | 10/16/98     | FB      |           |
|  |        |              |         |           |

| Compound          | Result | Dates<br>Sampled | Station                   |
|-------------------|--------|------------------|---------------------------|
| TETRACHLOROETHENE | 1.090  | 10/19/98         | $\mathbf{A}$              |
| TETRACHLOROETHENE | 0.950  | 10/19/98         | В                         |
| TETRACHLOROETHENE | 0.950  | 10/19/98         | C                         |
| TETRACHLOROETHENE | 1.290  | 10/19/98         | D                         |
| TETRACHLOROETHENE | 0.950  | 10/19/98         | E                         |
| TETRACHLOROETHENE | 1.220  | 10/19/98         | F                         |
| TETRACHLOROETHENE | 0.350  | 10/22/98         | A                         |
| TETRACHLOROETHENE | 0.350  | 10/22/98         | В                         |
| TETRACHLOROETHENE | 0.350  | 10/22/98         | C                         |
| TETRACHLOROETHENE | 0.350  | 10/22/98         | D                         |
| TETRACHLOROETHENE | 0.350  | 10/22/98         | F                         |
| TETRACHLOROETHENE | 0.350  | 10/22/98         | FB                        |
| TETRACHLOROETHENE | 0.350  | 10/25/98         | Α                         |
| TETRACHLOROETHENE | 0.350  | 10/25/98         | В                         |
| TETRACHLOROETHENE | 0.350  | 10/25/98         | D                         |
| TETRACHLOROETHENE | 0.350  | 10/25/98         | E                         |
| TETRACHLOROETHENE | 0.350  | 10/25/98         | F                         |
| TETRACHLOROETHENE | 0.350  | 10/25/98         | FB                        |
| TETRACHLOROETHENE | 0.350  | 10/31/98         | A                         |
| TETRACHLOROETHENE | 0.350  | 10/31/98         | В                         |
| TETRACHLOROETHENE | 0.350  | 10/31/98         | C                         |
| TETRACHLOROETHENE | 0.350  | 10/31/98         | D                         |
| TETRACHLOROETHENE | 0.350  | 10/31/98         | F                         |
| TETRACHLOROETHENE | 0.350  | 10/31/98         | FB                        |
| TETRACHLOROETHENE | 0.350  | 11/3/98          | $\mathbf{A}_{\mathbf{c}}$ |
| TETRACHLOROETHENE | 0.350  | 11/3/98          | В                         |
| TETRACHLOROETHENE | 0.350  | 11/3/98          | С                         |
|                   |        |                  |                           |

| Compound:         | Result | Sampled            | Shadon Sandon |
|-------------------|--------|--------------------|---------------|
| TETRACHLOROETHENE | 0.350  | 11/3/98            | D ·           |
| TETRACHLOROETHENE | 0.350  | 11/3/98            | F             |
| TETRACHLOROETHENE | 0.350  | 11/3/98            | FB            |
| TETRACHLOROETHENE | 0.350  | 11/6/98            | Α             |
| TETRACHLOROETHENE | 0.350  | 11/6/98            | В             |
| TETRACHLOROETHENE | 0.350  | 11/6/98            | С             |
| TETRACHLOROETHENE | 0.350  | 11/6/98            | <b>D</b>      |
| TETRACHLOROETHENE | 0.350  | 11/6/98            | E             |
| TETRACHLOROETHENE | 0.350  | 11/6/98            | F             |
| TETRACHLOROETHENE | 0.350  | 11/9/98            | Α             |
| TETRACHLOROETHENE | 0.350  | 11/9/98            | В             |
| TETRACHLOROETHENE | 0.350  | 11/9/98            | С             |
| TETRACHLOROETHENE | 0.350  | 11/9/98            | D             |
| TETRACHLOROETHENE | 0.350  | 11/9/98            | E             |
| TETRACHLOROETHENE | 0.350  | 11/9/98            | F             |
| TETRACHLOROETHENE | 0.350  | 11/9/98            | FB            |
| TETRACHLOROETHENE | 0.350  | 11/12/98           | Α             |
| TETRACHLOROETHENE | 0.350  | 11/12/98           | В             |
| TETRACHLOROETHENE | 0.350  | 11/12/98           | C             |
| TETRACHLOROETHENE | 0.350  | 11/12/98           | D             |
| TETRACHLOROETHENE | 0.350  | 11/12/98           | E             |
| TETRACHLOROETHENE | 0.350  | 11/1 <b>2/98</b> ~ | F             |
| TETRACHLOROETHENE | 0.350  | 11/12/98           | FB            |
| TETRACHLOROETHENE | 0.350  | 11/15/98           | Α             |
| TETRACHLOROETHENE | 0.350  | 11/15/98           | В             |
| TETRACHLOROETHENE | 0.350  | 11/15/98           | c             |
| TETRACHLOROETHENE | 0.350  | 11/15/98           | D             |

| Compound          | Results | Date<br>Sampled | Station      |
|-------------------|---------|-----------------|--------------|
| TETRACHLOROETHENE | 0.350   | 11/15/98        | E            |
| TETRACHLOROETHENE | 0.350   | 11/15/98        | F            |
| TETRACHLOROETHENE | 1.900   | 11/18/98        | A            |
| TETRACHLOROETHENE | 0.350   | 11/18/98        | В            |
| TETRACHLOROETHENE | 0.350   | 11/18/98        | C            |
| TETRACHLOROETHENE | 0.350   | 11/18/98        | D            |
| TETRACHLOROETHENE | 0.350   | 11/18/98        | E            |
| TETRACHLOROETHENE | 0.350   | 11/18/98        | F            |
| TETRACHLOROETHENE | 0.350   | 11/18/98        | FB           |
| TETRACHLOROETHENE | 0.350   | 11/21/98        | A            |
| TETRACHLOROETHENE | 0.350   | 11/21/98        | В            |
| TETRACHLOROETHENE | 0.350   | 11/21/98        | С            |
| TETRACHLOROETHENE | 0.350   | 11/21/98        | D            |
| TETRACHLOROETHENE | 0.350   | 11/21/98        | Е            |
| TETRACHLOROETHENE | 0.350   | 11/21/98        | <b>F</b>     |
| TETRACHLOROETHENE | 0.350   | 11/21/98        | FB           |
| TETRACHLOROETHENE | 0.350   | 11/30/98        | A            |
| TETRACHLOROETHENE | 0.350   | 11/30/98        | В            |
| TETRACHLOROETHENE | 0.350   | 11/30/98        | C            |
| TETRACHLOROETHENE | 0.350   | 11/30/98        | D            |
| TETRACHLOROETHENE | 0.350   | 11/30/98        | E            |
| TETRACHLOROETHENE | 0.350   | 11/30/98        | $\mathbf{F}$ |
| TETRACHLOROETHENE | 0.350   | 12/3/98         | A            |
| TETRACHLOROETHENE | 0.350   | 12/3/98         | В            |
| TETRACHLOROETHENE | 0.350   | 12/3/98         | <b>C</b>     |
| TETRACHLOROETHENE | 0.350   | 12/3/98         | D            |
| TETRACHLOROETHENE | 0.350   | 12/3/98         | F            |
|                   |         |                 |              |

| Compound 1        | Resulted | Sampled  | Station                   |     |
|-------------------|----------|----------|---------------------------|-----|
| TETRACHLOROETHENE | 0.350    | 12/6/98  | A                         |     |
| TETRACHLOROETHENE | 1.360    | 12/6/98  | В                         |     |
| TETRACHLOROETHENE | 0.350    | 12/6/98  | $\mathbf{C}_{\mathbf{c}}$ |     |
| TETRACHLOROETHENE | 0.350    | 12/6/98  | D                         |     |
| TETRACHLOROETHENE | 0.350    | 12/6/98  | F                         |     |
| TETRACHLOROETHENE | 0.350    | 12/9/98  | Α                         |     |
| TETRACHLOROETHENE | 0.350    | 12/9/98  | В                         |     |
| TETRACHLOROETHENE | 0.350    | 12/9/98  | C                         |     |
| TETRACHLOROETHENE | 0.350    | 12/9/98  | D                         |     |
| TETRACHLOROETHENE | 0.350    | 12/9/98  | $\mathbf{F}^{-1}$         |     |
| TETRACHLOROETHENE | 0.350    | 12/12/98 | A                         |     |
| TETRACHLOROETHENE | 0.350    | 12/12/98 | В                         |     |
| TETRACHLOROETHENE | 0.350    | 12/12/98 | C                         |     |
| TETRACHLOROETHENE | 0.350    | 12/12/98 | D                         |     |
| TETRACHLOROETHENE | 0.350    | 12/12/98 | E                         |     |
| TETRACHLOROETHENE | 6.780    | 12/12/98 | F                         |     |
| TETRACHLOROETHENE | 0.350    | 12/12/98 | FB                        |     |
| TETRACHLOROETHENE | 0.350    | 12/15/98 | Α                         |     |
| TETRACHLOROETHENE | 0.350    | 12/15/98 | В                         |     |
| TETRACHLOROETHENE | 0.350    | 12/15/98 | <b>C</b>                  |     |
| TETRACHLOROETHENE | 4.000    | 12/15/98 | D                         |     |
| TETRACHLOROETHENE | 0.350    | 12/15/98 | Е                         |     |
| TETRACHLOROETHENE | 1.020    | 12/15/98 | F                         |     |
| TETRACHLOROETHENE | 1.090    | 12/18/98 | A                         |     |
| TETRACHLOROETHENE | 0.350    | 12/18/98 | В                         |     |
| TETRACHLOROETHENE | 0.350    | 12/18/98 | C                         | مير |
| TETRACHLOROETHENE | 0.350    | 12/18/98 | D                         |     |
|                   |          |          |                           |     |

| Compound          | Result | Date<br>Sampled | Station                   |
|-------------------|--------|-----------------|---------------------------|
| TETRACHLOROETHENE | 0.810  | 12/18/98        | F                         |
| TETRACHLOROETHENE | 0.350  | 12/18/98        | FB                        |
| TETRACHLOROETHENE | 0.350  | 12/21/98        | Α                         |
| TETRACHLOROETHENE | 0.350  | 12/21/98        | В                         |
| TETRACHLOROETHENE | 0.350  | 12/21/98        | C                         |
| TETRACHLOROETHENE | 0.350  | 12/21/98        | D                         |
| TETRACHLOROETHENE | 0.750  | 12/21/98        | E                         |
| TETRACHLOROETHENE | 0.350  | 12/21/98        | F                         |
| TETRACHLOROETHENE | 0.350  | 12/21/98        | FB                        |
| TETRACHLOROETHENE | 0.350  | 12/27/98        | Α                         |
| TETRACHLOROETHENE | 0.350  | 12/27/98        | В                         |
| TETRACHLOROETHENE | 0.350  | 12/27/98        | C                         |
| TETRACHLOROETHENE | 0.350  | 12/27/98        | D                         |
| TETRACHLOROETHENE | 0.350  | 12/27/98        | • <b>F</b>                |
| TETRACHLOROETHENE | 0.350  | 12/30/98        | A                         |
| TETRACHLOROETHENE | 0.350  | 12/30/98        | В                         |
| TETRACHLOROETHENE | 0.350  | 12/30/98        | C                         |
| TETRACHLOROETHENE | 0.350  | 12/30/98        | D                         |
| TETRACHLOROETHENE | 0.350  | 12/30/98        | <b>F</b>                  |
| TETRACHLOROETHENE | 0.350  | 12/30/98        | FB                        |
| XYLENE            | 2.000  | 10/1/98         | Α                         |
| XYLENE            | 1.170  | 10/1/98         | . В                       |
| XYLENE            | 2.340  | 10/1/98         | C                         |
| XYLENE            | 0.870  | 10/1/98         | $\mathbf{D}_{\mathbf{p}}$ |
| XYLENE            | 1.040  | 10/1/98         | $\mathbf{E}^{\prime}$     |
| XYLENE            | 4.300  | 10/1/98         | F                         |
| XYLENE            | 0.200  | 10/1/98         | FB                        |
|                   |        |                 |                           |

| Compound | Result | Date Sampled | Station. |
|----------|--------|--------------|----------|
| XYLENE   | 9.730  | 10/4/98      | Α        |
| XYLENE   | 7.210  | 10/4/98      | В        |
| XYLENE   | 7.340  | 10/4/98      | C        |
| XYLENE   | 7.210  | 10/4/98      | D        |
| XYLENE   | 6.900  | 10/4/98      | F        |
| XYLENE   | 0.200  | 10/4/98      | FB       |
| XYLENE   | 2.130  | 10/7/98      | Α        |
| XYLENE   | 1.780  | 10/7/98      | В        |
| XYLENE   | 3.130  | 10/7/98      | C        |
| XYLENE   | 1.220  | 10/7/98      | D        |
| XYLENE   | 1.220  | 10/7/98      | E        |
| XYLENE   | 1.520  | 10/7/98      | F        |
| XYLENE   | 0.200  | 10/7/98      | FB       |
| XYLENE   | 3.340  | 10/10/98     | A        |
| XYLENE   | 2.820  | 10/10/98     | В        |
| XYLENE   | 3.260  | 10/10/98     | C        |
| XYLENE   | 2.340  | 10/10/98     | D        |
| XYLENE   | 2.560  | 10/10/98     | E        |
| XYLENE   | 2.520  | 10/10/98     | F        |
| XYLENE   | 3.430  | 10/13/98     | Α        |
| XYLENE   | 3.170  | 10/13/98     | В        |
| XYLENE   | 4.300  | 10/13/98     | C        |
| XYLENE   | 2.690  | 10/13/98     | D        |
| XYLENE   | 2.780  | 10/13/98     | F        |
| XYLENE   | 0.200  | 10/13/98     | FB       |
| XYLENE   | 2.560  | 10/16/98     | A        |
| XYLENE   | 2.000  | 10/16/98     | В        |
|          |        |              |          |

| Compound | Result  | Date<br>Sampled | Station              |
|----------|---------|-----------------|----------------------|
| XYLENE   | 2.430   | 10/16/98        | C                    |
| XYLENE   | 1.520   | 10/16/98        | D .                  |
| XYLENE   | 1.390   | 10/16/98        | Е                    |
| XYLENE   | 1.820   | 10/16/98        | F                    |
| XYLENE   | 0.200   | 10/16/98        | FB                   |
| XYLENE   | 11.640  | 10/19/98        | $\mathbf{A}_{\perp}$ |
| XYLENE   | 11.590  | 10/19/98        | В                    |
| XYLENE   | 10.030  | 10/19/98        | C                    |
| XYLENE   | 10.330  | 10/19/98        | D                    |
| XYLENE   | 8.770   | 10/19/98        | . <b>E</b>           |
| XYLENE   | 10.290  | 10/19/98        | F                    |
| XYLENE   | 3.730   | 10/22/98        | Α                    |
| XYLENE   | 2.740   | 10/22/98        | В                    |
| XYLENE   | 102.900 | 10/22/98        | C                    |
| XYLENE   | 2.170   | 10/22/98        | D                    |
| XYLENE   | 2.300   | 10/22/98        | F                    |
| XYLENE   | 0.200   | 10/22/98        | FB                   |
| XYLENE   | 3.780   | 10/25/98        | Α                    |
| XYLENE   | 5.380   | 10/25/98        | В                    |
| XYLENE   | 5.430   | 10/25/98        | D                    |
| XYLENE   | 5.210   | 10/25/98        | E                    |
| XYLENE   | 4.690   | 10/25/98        | F                    |
| XYLENE   | 0.200   | 10/25/98        | FB                   |
| XYLENE   | 6.380   | 10/31/98        | Α                    |
| XYLENE   | 5.730   | 10/31/98        | В                    |
| XYLENE   | 7.080   | 10/31/98        | C                    |
| XYLENE   | 4.730   | 10/31/98        | D                    |
|          |         |                 |                      |

| Compound | Result | Date 4.21. Sampled | Station . T  |
|----------|--------|--------------------|--------------|
| XYLENE   | 5.510  | 10/31/98           | F            |
| XYLENE   | 0.200  | 10/31/98           | FB           |
| XYLENE   | 4.170  | 11/3/98            | $\mathbf{A}$ |
| XYLENE   | 4.260  | 11/3/98            | В            |
| XYLENE   | 4.560  | 11/3/98            | С            |
| XYLENE   | 3.430  | 11/3/98            | D            |
| XYLENE   | 3.430  | 11/3/98            | F            |
| XYLENE   | 0.200  | 11/3/98            | FB           |
| XYLENE   | 2.210  | 11/6/98            | A            |
| XYLENE   | 1.740  | 11/6/98            | В            |
| XYLENE   | 2.130  | 11/6/98            | C            |
| XYLENE   | 1.870  | 11/6/98            | D            |
| XYLENE   | 1.820  | 11/6/98            | E            |
| XYLENE   | 1.430  | 11/6/98            | F            |
| XYLENE   | 5.250  | 11/9/98            | A            |
| XYLENE   | 4.520  | 11/9/98            | В            |
| XYLENE   | 5.380  | 11/9/98            | С            |
| XYLENE   | 3.860  | 11/9/98            | D            |
| XYLENE   | 6.990  | 11/9/98            | Е            |
| XYLENE   | 5.210  | 11/9/98            | <b>F</b>     |
| XYLENE   | 0.200  | 11/9/98            | FB           |
| XYLENE   | 9.770  | 11/12/98           | A            |
| XYLENE   | 8.770  | 11/12/98           | В            |
| XYLENE   | 10.330 | 11/12/98           | С            |
| XYLENE   | 6.510  | 11/12/98           | D            |
| XYLENE   | 5.990  | 11/12/98           | Е            |
| XYLENE   | 6.820  | 11/12/98           | F            |
|          |        |                    |              |

| Compound | Result | Date<br>Sampled | Station          |
|----------|--------|-----------------|------------------|
| XYLENE   | 0.200  | 11/12/98        | FB               |
| XYLENE   | 7.120  | 11/15/98        | <b>A</b>         |
| XYLENE   | 7.730  | 11/15/98        | В                |
| XYLENE   | 8.210  | 11/15/98        | C                |
| XYLENE   | 5.340  | 11/15/98        | D v              |
| XYLENE   | 4.780  | 11/15/98        | E                |
| XYLENE   | 5.820  | 11/15/98        | F                |
| XYLENE   | 7.080  | 11/18/98        | Α                |
| XYLENE   | 7.550  | 11/18/98        | $\mathbf{B}_{i}$ |
| XYLENE   | 7.640  | 11/18/98        | C                |
| XYLENE   | 7.600  | 11/18/98        | D                |
| XYLENE   | 1.950  | 11/18/98        | E                |
| XYLENE   | 5.690  | 11/18/98        | F                |
| XYLENE   | 0.200  | 11/18/98        | FB               |
| XYLENE   | 2.210  | 11/21/98        | A                |
| XYLENE   | 2.000  | 11/21/98        | В                |
| XYLENE   | 1.780  | 11/21/98        | C                |
| XYLENE   | 1.300  | 11/21/98        | D                |
| XYLENE   | 1.220  | 11/21/98        | <b>. E</b>       |
| XYLENE   | 1.220  | 11/21/98        | F                |
| XYLENE   | 0.200  | 11/21/98        | FB               |
| XYLENE   | 2.910  | 11/30/98        | Α                |
| XYLENE   | 2.340  | 11/30/98        | В                |
| XYLENE   | 3.260  | 11/30/98        | C                |
| XYLENE   | 1.870  | 11/30/98        | D                |
| XYLENE   | 1.650  | 11/30/98        | E                |
| XYLENE   | 2.210  | 11/30/98        | F                |
|          |        |                 |                  |

| Compound | Result | Date<br>Sampled | Station of the state of the sta |
|----------|--------|-----------------|--|
| XYLENE   | 4.910  | 12/3/98         | Α  |
| XYLENE   | 4.340  | 12/3/98         | В  |
| XYLENE   | 4.210  | 12/3/98         | C  |
| XYLENE   | 3.470  | 12/3/98         | D  |
| XYLENE   | 4.040  | 12/3/98         | F  |
| XYLENE   | 6.560  | 12/6/98         | Α  |
| XYLENE   | 6.080  | 12/6/98         | В  |
| XYLENE   | 7.420  | 12/6/98         | C  |
| XYLENE   | 4.260  | 12/6/98         | D  |
| XYLENE   | 4.560  | 12/6/98         | <b>F</b>   |
| XYLENE   | 6.640  | 12/9/98         | A  |
| XYLENE   | 5.380  | 12/9/98         | В  |
| XYLENE   | 9.770  | 12/9/98         | С  |
| XYLENE   | 4.260  | 12/9/98         | D  |
| XYLENE   | 5.210  | 12/9/98         | F  |
| XYLENE   | 6.210  | 12/12/98        | Α  |
| XYLENE   | 6.170  | 12/12/98        | В  |
| XYLENE   | 7.080  | 12/12/98        | C  |
| XYLENE   | 4.650  | 12/12/98        | D  |
| XYLENE   | 4.820  | 12/12/98        | E  |
| XYLENE   | 5.080  | 12/12/98        | F  |
| XYLENE   | 0.200  | 12/12/98        | FB   |
| XYLENE   | 10.590 | 12/15/98        | Α  |
| XYLENE   | 8.900  | 12/15/98        | В  |
| XYLENE   | 8.770  | 12/15/98        | С  |
| XYLENE   | 7.210  | 12/15/98        | D  |
| XYLENE   | 6.820  | 12/15/98        | Е  |
|          |        |                 |  |

| Compound | Result | Date Sampled | Station                             |
|----------|--------|--------------|-------------------------------------|
| XYLENE   | 7.690  | 12/15/98     | F                                   |
| XYLENE   | 3.690  | 12/18/98     | A                                   |
| XYLENE   | 3.170  | 12/18/98     | В                                   |
| XYLENE   | 2.650  | 12/18/98     | C                                   |
| XYLENE   | 1.740  | 12/18/98     | D                                   |
| XYLENE   | 3.780  | 12/18/98     | F                                   |
| XYLENE   | 0.200  | 12/18/98     | FB                                  |
| XYLENE   | 5.820  | 12/21/98     | A                                   |
| XYLENE   | 5.080  | 12/21/98     | В                                   |
| XYLENE   | 6.340  | 12/21/98     | C                                   |
| XYLENE   | 4.390  | 12/21/98     | D                                   |
| XYLENE   | 4.080  | 12/21/98     | $\mathbf{E}$                        |
| XYLENE   | 4.780  | 12/21/98     | <b>F</b>                            |
| XYLENE   | 0.200  | 12/21/98     | FB                                  |
| XYLENE   | 4.950  | 12/27/98     | Α                                   |
| XYLENE   | 4.430  | 12/27/98     | В                                   |
| XYLENE   | 3.780  | 12/27/98     | C                                   |
| XYLENE   | 5.080  | 12/27/98     | D                                   |
| XYLENE   | 4.080  | 12/27/98     | $\mathbf{r}_{i}$ , $\mathbf{r}_{i}$ |
| XYLENE   | 4.260  | 12/30/98     | Α                                   |
| XYLENE   | 3.910  | 12/30/98     | В                                   |
| XYLENE   | 3.690  | 12/30/98     | С                                   |
| XYLENE   | 7.770  | 12/30/98     | D                                   |
| XYLENE   | 2.950  | 12/30/98     | F                                   |
| XYLENE   | 0.200  | 12/30/98     | FB                                  |
|          |        |              |                                     |

#### **APPENDIX B**

#### SUMMARY OF LABORATORY ANALYTICAL RESULTS SEMI-VOLATILE ORGANIC COMPOUNDS

#### Summary of Laboratory Analytical Results Pesticides and Polychlorinated Biphenyls (Measured in ug/m3) Fourth Quarter 1998

|           |        |                 | :            |
|-----------|--------|-----------------|--------------|
| Compound: | Result | Date<br>Sampled | Station      |
| 4,4'-DDD  | 0.000  | 10/1/98         | Α            |
| 4,4'-DDD  | 0.000  | 10/1/98         | В            |
| 4,4'-DDD  | 0.000  | 10/1/98         | C            |
| 4,4'-DDD  | 0.000  | 10/1/98         | D            |
| 4,4'-DDD  | 0.000  | 10/1/98         | E            |
| 4,4'-DDD  | 0.000  | 10/1/98         | F            |
| 4,4'-DDD  | 0.000  | 10/4/98         | Α            |
| 4,4'-DDD  | 0.000  | 10/4/98         | В            |
| 4,4'-DDD  | 0.000  | 10/4/98         | C            |
| 4,4'-DDD  | 0.000  | 10/4/98         | D            |
| 4,4'-DDD  | 0.000  | 10/4/98         | F            |
| 4,4'-DDD  | 0.000  | 10/4/98         | FB           |
| 4,4'-DDD  | 0.000  | 10/7/98         | Α            |
| 4,4'-DDD  | 0.000  | 10/7/98         | В            |
| 4,4'-DDD  | 0.000  | 10/7/98         | C            |
| 4,4'-DDD  | 0.000  | 10/7/98         | . D          |
| 4,4'-DDD  | 0.000  | 10/7/98         | E            |
| 4,4'-DDD  | 0.000  | 10/7/98         | F            |
| 4,4'-DDD  | 0.000  | 10/7/98         | FB           |
| 4,4'-DDD  | 0.000  | 10/10/98        | $\mathbf{A}$ |
| 4,4'-DDD  | 0.000  | 10/10/98        | В            |
| 4,4'-DDD  | 0.000  | 10/10/98        | С            |
| 4,4'-DDD  | 0.000  | 10/10/98        | D            |
| 4,4'-DDD  | 0.000  | 10/10/98        | E            |
| 4,4'-DDD  | 0.000  | 10/10/98        | F            |
| ,4'-DDD   | 0.000  | 10/13/98        | A            |
|           |        |                 |              |

#### Summary of Laboratory Analytical Results Pesticides and Polychlorinated Biphenyls (Measured in ug/m3) Fourth Quarter 1998

|          |        | Date     |         |
|----------|--------|----------|---------|
| Compound | Result | Sampled  | Station |
| 4,4'-DDD | 0.000  | 10/13/98 | В       |
| 4,4'-DDD | 0.000  | 10/13/98 | C       |
| 4,4'-DDD | 0.000  | 10/13/98 | D       |
| 4,4'-DDD | 0.000  | 10/13/98 | F       |
| 4,4'-DDD | 0.000  | 10/13/98 | FB      |
| 4,4'-DDD | 0.000  | 10/16/98 | Α       |
| 4,4'-DDD | 0.000  | 10/16/98 | В       |
| 4,4'-DDD | 0.000  | 10/16/98 | С       |
| 4,4'-DDD | 0.000  | 10/16/98 | D       |
| 4,4'-DDD | 0.000  | 10/16/98 | E       |
| 4,4'-DDD | 0.000  | 10/16/98 | F       |
| 4,4'-DDD | 0.000  | 10/16/98 | FB      |
| 4,4'-DDD | 0.000  | 10/22/98 | Α       |
| 4,4'-DDD | 0.000  | 10/22/98 | В       |
| 4,4'-DDD | 0.000  | 10/22/98 | С       |
| 4,4'-DDD | 0.000  | 10/22/98 | D       |
| 4,4'-DDD | 0.000  | 10/22/98 | F       |
| 4,4'-DDD | 0.000  | 10/22/98 | FB      |
| 4,4'-DDD | 0.000  | 10/25/98 | Α       |
| 4,4'-DDD | 0.000  | 10/25/98 | В       |
| 4,4'-DDD | 0.000  | 10/25/98 | С       |
| 4,4'-DDD | 0.000  | 10/25/98 | D       |
| 4,4'-DDD | 0.000  | 10/25/98 | E       |
| 4,4'-DDD | 0.000  | 10/25/98 | F       |
| 4,4'-DDD | 0.000  | 10/25/98 | EB      |
| 4,4'-DDD | 0.000  | 10/28/98 | Α       |
|          |        |          |         |

#### Summary of Laboratory Analytical Results Pesticides and Polychlorinated Biphenyls (Measured in ug/m3) Fourth Quarter 1998

|   |          |        | Date     |         |
|---|----------|--------|----------|---------|
|   | Compound | Result | Sampled  | Station |
|   | 4,4'-DDD | 0.000  | 10/28/98 | В       |
|   | 4,4'-DDD | 0.000  | 10/28/98 | C       |
|   | 4,4'-DDD | 0.000  | 10/28/98 | D       |
|   | 4,4'-DDD | 0.000  | 10/28/98 | E       |
|   | 4,4'-DDD | 0.000  | 10/28/98 | F       |
|   | 4,4'-DDD | 0.000  | 10/31/98 | Α       |
|   | 4,4'-DDD | 0.000  | 10/31/98 | В       |
|   | 4,4'-DDD | 0.000  | 10/31/98 | C       |
|   | 4,4'-DDD | 0.000  | 10/31/98 | D       |
|   | 4,4'-DDD | 0.000  | 10/31/98 | F       |
| _ | 4,4'-DDD | 0.000  | 10/31/98 | FB      |
| _ | 4,4'-DDD | 0.000  | 11/3/98  | A       |
|   | 4,4'-DDD | 0.000  | 11/3/98  | В       |
|   | 4,4'-DDD | 0.000  | 11/3/98  | C       |
|   | 4,4'-DDD | 0.000  | 11/3/98  | D       |
|   | 4,4'-DDD | 0.000  | 11/3/98  | F       |
|   | 4,4'-DDD | 0.000  | 11/3/98  | FB      |
|   | 4,4'-DDD | 0.000  | 11/6/98  | A       |
|   | 4,4'-DDD | 0.000  | 11/6/98  | В       |
|   | 4,4'-DDD | 0.000  | 11/6/98  | C       |
|   | 4,4'-DDD | 0.000  | 11/6/98  | D       |
|   | 4,4'-DDD | 0.000  | 11/6/98  | E       |
|   | 4,4'-DDD | 0.000  | 11/6/98  | F       |
|   | 4,4'-DDD | 0.000  | 11/9/98  | A       |
|   | 4,4'-DDD | 0.000  | 11/9/98  | В       |
|   | 4,4'-DDD | 0.000  | 11/9/98  | C       |
|   |          |        |          |         |

| The state of the s | All and the second | Date      | and the state of t |
|--|--------------------|-----------|--|
| Compound   | Result             | Sampled : | Station  |
| 4,4'-DDD   | 0.000              | 11/9/98   | D  |
| 4,4'-DDD   | 0.000              | 11/9/98   | E  |
| 4,4'-DDD   | 0.000              | 11/9/98   | F  |
| 4,4'-DDD   | 0.000              | 11/9/98   | FB   |
| 4,4'-DDD   | 0.000              | 11/12/98  | A  |
| 4,4'-DDD   | 0.000              | 11/12/98  | В  |
| 4,4'-DDD   | 0.000              | 11/12/98  | C  |
| 4,4'-DDD   | 0.000              | 11/12/98  | D  |
| 4,4'-DDD   | 0.000              | 11/12/98  | E  |
| 4,4'-DDD   | 0.000              | 11/12/98  | F  |
| 4,4'-DDD   | 0.000              | 11/12/98  | FB   |
| 4,4'-DDD   | 0.000              | 11/15/98  | A  |
| 4,4'-DDD   | 0.000              | 11/15/98  | В  |
| 4,4'-DDD   | 0.000              | 11/15/98  | C  |
| 4,4'-DDD   | 0.000              | 11/15/98  | D  |
| 4,4'-DDD   | 0.000              | 11/15/98  | E  |
| 4,4'-DDD   | 0.000              | 11/15/98  | F  |
| 4,4'-DDD   | 0.000              | 11/15/98  | FB   |
| 4,4'-DDD   | 0.000              | 11/18/98  | Α  |
| 4,4'-DDD   | 0.000              | 11/18/98  | В  |
| 4,4'-DDD   | 0.000              | 11/18/98  | $\mathbf{C}$   |
| 4,4'-DDD   | 0.000              | 11/18/98  | D  |
| 4,4'-DDD   | 0.000              | 11/18/98  | F  |
| 4,4'-DDD   | 0.000              | 11/18/98  | FB   |
| 4,4'-DDD   | 0.000              | 11/21/98  | A  |
| 4,4'-DDD   | 0.000              | 11/21/98  | В  |
|  |                    |           |  |

| Compound | Result | Date<br>Sampled | Station  |
|----------|--------|-----------------|----------|
| 4,4'-DDD | 0.000  | 11/21/98        | C        |
| 4,4'-DDD | 0.000  | 11/21/98        | D        |
| 4,4'-DDD | 0.000  | 11/21/98        | E        |
| 4,4'-DDD | 0.000  | 11/21/98        | F        |
| 4,4'-DDD | 0.000  | 11/21/98        | FB       |
| 4,4'-DDD | 0.000  | 11/24/98        | Α        |
| 4,4'-DDD | 0.000  | 11/24/98        | В        |
| 4,4'-DDD | 0.000  | 11/24/98        | <b>C</b> |
| 4,4'-DDD | 0.000  | 11/24/98        | D        |
| 4,4'-DDD | 0.000  | 11/24/98        | E        |
| 4,4'-DDD | 0.000  | 11/24/98        | F        |
| 4,4'-DDD | 0.000  | 11/27/98        | Α        |
| 4,4'-DDD | 0.000  | 11/27/98        | В        |
| 4,4'-DDD | 0.000  | 11/27/98        | С        |
| 4,4'-DDD | 0.000  | 11/27/98        | D        |
| 4,4'-DDD | 0.000  | 11/27/98        | F        |
| 4,4'-DDD | 0.000  | 11/27/98        | FB       |
| 4,4'-DDD | 0.000  | 11/30/98        | Α        |
| 4,4'-DDD | 0.000  | 11/30/98        | В        |
| 4,4'-DDD | 0.000  | 11/30/98        | C        |
| 4,4'-DDD | 0.000  | 11/30/98        | D        |
| 4,4'-DDD | 0.000  | 11/30/98        | E        |
| 4,4'-DDD | 0.000  | 11/30/98        | F        |
| 4,4'-DDD | 0.000  | 12/3/98         | Α        |
| 4,4'-DDD | 0.000  | 12/3/98         | В        |
| 4,4'-DDD | 0.000  | 12/3/98         | С        |

| Compound | Result | Date<br>Sampled | Station |
|----------|--------|-----------------|---------|
| 4,4'-DDD | 0.000  | 12/3/98         | D       |
| 4,4'-DDD | 0.000  | 12/3/98         | F       |
| 4,4'-DDD | 0.000  | 12/6/98         | Α       |
| 4,4'-DDD | 0.000  | 12/6/98         | В       |
| 4,4'-DDD | 0.000  | 12/6/98         | C       |
| 4,4'-DDD | 0.000  | 12/6/98         | D       |
| 4,4'-DDD | 0.000  | 12/6/98         | F       |
| 4,4'-DDD | 0.000  | 12/9/98         | Α       |
| 4,4'-DDD | 0.000  | 12/9/98         | В       |
| 4,4'-DDD | 0.000  | 12/9/98         | C       |
| 4,4'-DDD | 0.000  | 12/9/98         | D       |
| 4,4'-DDD | 0.000  | 12/9/98         | F       |
| 4,4'-DDD | 0.000  | 12/12/98        | Α       |
| 4,4'-DDD | 0.000  | 12/12/98        | В       |
| 4,4'-DDD | 0.000  | 12/12/98        | C       |
| 4,4'-DDD | 0.000  | 12/12/98        | D       |
| 4,4'-DDD | 0.000  | 12/12/98        | E       |
| 4,4'-DDD | 0.000  | 12/12/98        | F       |
| 4,4'-DDD | 0.000  | 12/12/98        | FB      |
| 4,4'-DDD | 0.000  | 12/15/98        | Α       |
| 4,4'-DDD | 0.000  | 12/15/98        | В       |
| 4,4'-DDD | 0.000  | 12/15/98        | C       |
| 4,4'-DDD | 0.000  | 12/15/98        | D       |
| 4,4'-DDD | 0.000  | 12/15/98        | E       |
| 4,4'-DDD | 0.000  | 12/15/98        | F       |
| 4,4'-DDD | 0.000  | 12/18/98        | Α       |
|          |        |                 |         |

| Compound | Result | Date<br>Sampled | Station |
|----------|--------|-----------------|---------|
| 4,4'-DDD | 0.000  | 12/18/98        | В       |
| 4,4'-DDD | 0.000  | 12/18/98        | C       |
| 4,4'-DDD | 0.000  | 12/18/98        | D       |
| 4,4'-DDD | 0.000  | 12/18/98        | F       |
| 4,4'-DDD | 0.000  | 12/18/98        | FB      |
| 4,4'-DDD | 0.000  | 12/21/98        | Α       |
| 4,4'-DDD | 0.000  | 12/21/98        | В       |
| 4,4'-DDD | 0.000  | 12/21/98        | C       |
| 4,4'-DDD | 0.000  | 12/21/98        | D       |
| 4,4'-DDD | 0.000  | 12/21/98        | E       |
| 4,4'-DDD | 0.000  | 12/21/98        | F       |
| 4,4'-DDD | 0.000  | 12/21/98        | FB      |
| 4,4'-DDD | 0.000  | 12/27/98        | Α       |
| 4,4'-DDD | 0.000  | 12/27/98        | В       |
| 4,4'-DDD | 0.000  | 12/27/98        | C       |
| 4,4'-DDD | 0.000  | 12/27/98        | D       |
| 4,4'-DDD | 0.000  | 12/27/98        | E       |
| 4,4'-DDD | 0.000  | 12/27/98        | F       |
| 4,4'-DDD | 0.000  | 12/30/98        | Α       |
| 4,4'-DDD | 0.000  | 12/30/98        | В       |
| 4,4'-DDD | 0.000  | 12/30/98        | C       |
| 4,4'-DDD | 0.000  | 12/30/98        | D       |
| 4,4'-DDD | 0.000  | 12/30/98        | F       |
| 4,4'-DDD | 0.000  | 12/30/98        | FB      |
| 4,4'-DDE | 0.000  | 10/1/98         | Α       |
| 4,4'-DDE | 0.000  | 10/1/98         | В       |
|          |        |                 |         |

|          |        | v Date   |         |
|----------|--------|----------|---------|
| Compound | Result | Sampled  | Station |
| 4,4'-DDE | 0.000  | 10/1/98  | C       |
| 4,4'-DDE | 0.000  | 10/1/98  | D       |
| 4,4'-DDE | 0.000  | 10/1/98  | Е       |
| 4,4'-DDE | 0.000  | 10/1/98  | F       |
| 4,4'-DDE | 0.000  | 10/4/98  | Α       |
| 4,4'-DDE | 0.000  | 10/4/98  | В       |
| 4,4'-DDE | 0.000  | 10/4/98  | C       |
| 4,4'-DDE | 0.000  | 10/4/98  | D       |
| 4,4'-DDE | 0.000  | 10/4/98  | F       |
| 4,4'-DDE | 0.000  | 10/4/98  | FB      |
| 4,4'-DDE | 0.000  | 10/7/98  | A       |
| 4,4'-DDE | 0.000  | 10/7/98  | В       |
| 4,4'-DDE | 0.000  | 10/7/98  | C       |
| 4,4'-DDE | 0.000  | 10/7/98  | D       |
| 4,4'-DDE | 0.000  | 10/7/98  | E       |
| 4,4'-DDE | 0.000  | 10/7/98  | F       |
| 4,4'-DDE | 0.000  | 10/7/98  | FB      |
| 4,4'-DDE | 0.000  | 10/10/98 | Α       |
| 4,4'-DDE | 0.000  | 10/10/98 | В       |
| 4,4'-DDE | 0.000  | 10/10/98 | C       |
| 4,4'-DDE | 0.000  | 10/10/98 | D       |
| 4,4'-DDE | 0.000  | 10/10/98 | E       |
| 4,4'-DDE | 0.000  | 10/10/98 | F       |
| 4,4'-DDE | 0.000  | 10/13/98 | Α       |
| 4,4'-DDE | 0.000  | 10/13/98 | В       |
| 4,4'-DDE | 0.000  | 10/13/98 | С       |
|          |        |          |         |

| Compound | Result | Date<br>Sampled | Station |
|----------|--------|-----------------|---------|
| 4,4'-DDE | 0.000  | 10/13/98        | D       |
| 4,4'-DDE | 0.000  | 10/13/98        | F       |
| 4,4'-DDE | 0.000  | 10/13/98        | FB      |
| 4,4'-DDE | 0.000  | 10/16/98        | Α       |
| 4,4'-DDE | 0.000  | 10/16/98        | В       |
| 4,4'-DDE | 0.000  | 10/16/98        | C       |
| 4,4'-DDE | 0.000  | 10/16/98        | D       |
| 4,4'-DDE | 0.000  | 10/16/98        | Е       |
| 4,4'-DDE | 0.000  | 10/16/98        | F       |
| 4,4'-DDE | 0.000  | 10/16/98        | FB      |
| 4,4'-DDE | 0.000  | 10/22/98        | Α       |
| 4,4'-DDE | 0.000  | 10/22/98        | В       |
| 4,4'-DDE | 0.000  | 10/22/98        | C       |
| 4,4'-DDE | 0.000  | 10/22/98        | D       |
| 4,4'-DDE | 0.000  | 10/22/98        | F       |
| 4,4'-DDE | 0.000  | 10/22/98        | FB      |
| 4,4'-DDE | 0.000  | 10/25/98        | Α       |
| 4,4'-DDE | 0.000  | 10/25/98        | В       |
| 4,4'-DDE | 0.000  | 10/25/98        | C       |
| 4,4'-DDE | 0.000  | 10/25/98        | D       |
| 4,4'-DDE | 0.000  | 10/25/98        | E       |
| 4,4'-DDE | 0.000  | 10/25/98        | F       |
| 4,4'-DDE | 0.000  | 10/25/98        | FB      |
| 4,4'-DDE | 0.000  | 10/28/98        | Α       |
| 4,4'-DDE | 0.000  | 10/28/98        | В       |
| 4,4'-DDE | 0.000  | 10/28/98        | C       |
|          |        |                 |         |

| Compound | Result | Date<br>Sampled | Station |
|----------|--------|-----------------|---------|
| 4,4'-DDE | 0.000  | 10/28/98        | D       |
| 4,4'-DDE | 0.000  | 10/28/98        | E       |
| 4,4'-DDE | 0.000  | 10/28/98        | F       |
| 4,4'-DDE | 0.000  | 10/31/98        | Α       |
| 4,4'-DDE | 0.000  | 10/31/98        | В       |
| 4,4'-DDE | 0.000  | 10/31/98        | C       |
| 4,4'-DDE | 0.000  | 10/31/98        | D       |
| 4,4'-DDE | 0.000  | 10/31/98        | F       |
| 4,4'-DDE | 0.000  | 10/31/98        | FB      |
| 4,4'-DDE | 0.000  | 11/3/98         | Α       |
| 4,4'-DDE | 0.000  | 11/3/98         | В       |
| 4,4'-DDE | 0.000  | 11/3/98         | С       |
| 4,4'-DDE | 0.000  | 11/3/98         | D       |
| 4,4'-DDE | 0.000  | 11/3/98         | F       |
| 4,4'-DDE | 0.000  | 11/3/98         | FB      |
| 4,4'-DDE | 0.000  | 11/6/98         | Α       |
| 4,4'-DDE | 0.000  | 11/6/98         | В       |
| 4,4'-DDE | 0.000  | 11/6/98         | C       |
| 4,4'-DDE | 0.000  | 11/6/98         | D       |
| 4,4'-DDE | 0.000  | 11/6/98         | E       |
| 4,4'-DDE | 0.000  | 11/6/98         | F       |
| 4,4'-DDE | 0.000  | 11/9/98         | Α       |
| 4,4'-DDE | 0.000  | 11/9/98         | В       |
| 4,4'-DDE | 0.000  | 11/9/98         | С       |
| 4,4'-DDE | 0.000  | 11/9/98         | D       |
| 4,4'-DDE | 0.000  | 11/9/98         | Е       |
|          |        |                 |         |

|          |        | Date     |         |
|----------|--------|----------|---------|
| Compound | Result | Sampled  | Station |
| 4,4'-DDE | 0.000  | 11/9/98  | F       |
| 4,4'-DDE | 0.000  | 11/9/98  | FB      |
| 4,4'-DDE | 0.000  | 11/12/98 | A       |
| 4,4'-DDE | 0.000  | 11/12/98 | В       |
| 4,4'-DDE | 0.000  | 11/12/98 | C       |
| 4,4'-DDE | 0.000  | 11/12/98 | D       |
| 4,4'-DDE | 0.000  | 11/12/98 | E       |
| 4,4'-DDE | 0.000  | 11/12/98 | F       |
| 4,4'-DDE | 0.000  | 11/12/98 | FB      |
| 4,4'-DDE | 0.000  | 11/15/98 | Α       |
| 4,4'-DDE | 0.000  | 11/15/98 | В       |
| 4,4'-DDE | 0.000  | 11/15/98 | C       |
| 4,4'-DDE | 0.000  | 11/15/98 | D       |
| 4,4'-DDE | 0.000  | 11/15/98 | Е       |
| 4,4'-DDE | 0.000  | 11/15/98 | F       |
| 4,4'-DDE | 0.000  | 11/15/98 | FB      |
| 4,4'-DDE | 0.000  | 11/18/98 | Α       |
| 4,4'-DDE | 0.000  | 11/18/98 | В       |
| 4,4'-DDE | 0.000  | 11/18/98 | С       |
| 4,4'-DDE | 0.000  | 11/18/98 | D       |
| 4,4'-DDE | 0.000  | 11/18/98 | F       |
| 4,4'-DDE | 0.000  | 11/18/98 | FB      |
| 4,4'-DDE | 0.000  | 11/21/98 | Α       |
| 4,4'-DDE | 0.000  | 11/21/98 | В       |
| 4,4'-DDE | 0.000  | 11/21/98 | С       |
| 4,4'-DDE | 0.000  | 11/21/98 | D       |
|          |        |          |         |

| Compound 18 18 18 18 18 18 18 18 18 18 18 18 18 | Results | Date<br>Sampled | Station |
|---|---------|-----------------|---------|
| 4,4'-DDE  | 0.000   | 11/21/98        | Е       |
| 4,4'-DDE  | 0.000   | 11/21/98        | F       |
| 4,4'-DDE  | 0.000   | 11/21/98        | FB      |
| 4,4'-DDE  | 0.000   | 11/24/98        | Α       |
| 4,4'-DDE  | 0.000   | 11/24/98        | В       |
| 4,4'-DDE  | 0.000   | 11/24/98        | С       |
| 4,4'-DDE  | 0.000   | 11/24/98        | D       |
| 4,4'-DDE  | 0.000   | 11/24/98        | E       |
| 4,4'-DDE  | 0.000   | 11/24/98        | F       |
| 4,4'-DDE  | 0.000   | 11/27/98        | A       |
| 4,4'-DDE  | 0.000   | 11/27/98        | В       |
| 4,4'-DDE  | 0.000   | 11/27/98        | С       |
| 4,4'-DDE  | 0.000   | 11/27/98        | D       |
| 4,4'-DDE  | 0.000   | 11/27/98        | F       |
| 4,4'-DDE  | 0.000   | 11/27/98        | FB      |
| 4,4'-DDE  | 0.000   | 11/30/98        | A       |
| 4,4'-DDE  | 0.000   | 11/30/98        | В       |
| 4,4'-DDE  | 0.000   | 11/30/98        | С       |
| 4,4'-DDE  | 0.000   | 11/30/98        | D       |
| 4,4'-DDE  | 0.000   | 11/30/98        | Е       |
| 4,4'-DDE  | 0.000   | 11/30/98        | F       |
| 4,4'-DDE  | 0.000   | 12/3/98         | A       |
| 4,4'-DDE  | 0.000   | 12/3/98         | В       |
| 4,4'-DDE  | 0.000   | 12/3/98         | С       |
| 4,4'-DDE  | 0.000   | 12/3/98         | D       |
| 4,4'-DDE  | 0.000   | 12/3/98         | F       |
|   |         |                 |         |

| Compound | Result | Date<br>Sampled | Station  |
|----------|--------|-----------------|----------|
| 4,4'-DDE | 0.000  | 12/6/98         | A        |
| 4,4'-DDE | 0.000  | 12/6/98         | В        |
| 4,4'-DDE | 0.000  | 12/6/98         | C        |
| 4,4'-DDE | 0.000  | 12/6/98         | D        |
| 4,4'-DDE | 0.000  | 12/6/98         | F        |
| 4,4'-DDE | 0.000  | 12/9/98         | <b>A</b> |
| 4,4'-DDE | 0.000  | 12/9/98         | В        |
| 4,4'-DDE | 0.000  | 12/9/98         | C        |
| 4,4'-DDE | 0.000  | 12/9/98         | D        |
| 4,4'-DDE | 0.000  | 12/9/98         | F        |
| 4,4'-DDE | 0.000  | 12/12/98        | Α        |
| 4,4'-DDE | 0.000  | 12/12/98        | В        |
| 4,4'-DDE | 0.000  | 12/12/98        | C        |
| 4,4'-DDE | 0.000  | 12/12/98        | D        |
| 4,4'-DDE | 0.000  | 12/12/98        | E        |
| 4,4'-DDE | 0.000  | 12/12/98        | F        |
| 4,4'-DDE | 0.000  | 12/12/98        | FB       |
| 4,4'-DDE | 0.000  | 12/15/98        | Α        |
| 4,4'-DDE | 0.000  | 12/15/98        | В        |
| 4,4'-DDE | 0.000  | 12/15/98        | С        |
| 4,4'-DDE | 0.000  | 12/15/98        | D        |
| 4,4'-DDE | 0.000  | 12/15/98        | E        |
| 4,4'-DDE | 0.000  | 12/15/98        | F        |
| 4,4'-DDE | 0.000  | 12/18/98        | Α        |
| 4,4'-DDE | 0.000  | 12/18/98        | В        |
| 4,4'-DDE | 0.000  | 12/18/98        | C        |
|          |        |                 |          |

| Compound | Result | Date Sampled | Station 2 198 |
|----------|--------|--------------|---------------|
| 4,4'-DDE | 0.000  | 12/18/98     | D             |
| 4,4'-DDE | 0.000  | 12/18/98     | F             |
| 4,4'-DDE | 0.000  | 12/18/98     | FB            |
| 4,4'-DDE | 0.000  | 12/21/98     | Α             |
| 4,4'-DDE | 0.000  | 12/21/98     | В             |
| 4,4'-DDE | 0.000  | 12/21/98     | С             |
| 4,4'-DDE | 0.000  | 12/21/98     | D             |
| 4,4'-DDE | 0.000  | 12/21/98     | E             |
| 4,4'-DDE | 0.000  | 12/21/98     | F             |
| 4,4'-DDE | 0.000  | 12/21/98     | FB            |
| 4,4'-DDE | 0.000  | 12/27/98     | A             |
| 4,4'-DDE | 0.000  | 12/27/98     | В             |
| 4,4'-DDE | 0.000  | 12/27/98     | C             |
| 4,4'-DDE | 0.000  | 12/27/98     | D             |
| 4,4'-DDE | 0.000  | 12/27/98     | E             |
| 4,4'-DDE | 0.000  | 12/27/98     | F             |
| 4,4'-DDE | 0.000  | 12/30/98     | A             |
| 4,4'-DDE | 0.000  | 12/30/98     | В             |
| 4,4'-DDE | 0.000  | 12/30/98     | C             |
| 4,4'-DDE | 0.000  | 12/30/98     | D             |
| 4,4'-DDE | 0.000  | 12/30/98     | F             |
| 4,4'-DDE | 0.000  | 12/30/98     | FB            |
| 4,4'-DDT | 0.000  | 10/1/98      | Α             |
| 4,4'-DDT | 0.000  | 10/1/98      | В             |
| 4,4'-DDT | 0.000  | 10/1/98      | С             |
| 4,4'-DDT | 0.000  | 10/1/98      | D             |

| Compound | Result | Date Sampled | Station |
|----------|--------|--------------|---------|
| 4,4'-DDT | 0.000  | 10/1/98      | E       |
| 4,4'-DDT | 0.000  | 10/1/98      | F       |
| 4,4'-DDT | 0.000  | 10/4/98      | Α       |
| 4,4'-DDT | 0.000  | 10/4/98      | В       |
| 4,4'-DDT | 0.000  | 10/4/98      | С       |
| 4,4'-DDT | 0.000  | 10/4/98      | D       |
| 4,4'-DDT | 0.000  | 10/4/98      | F       |
| 4,4'-DDT | 0.000  | 10/4/98      | FB      |
| 4,4'-DDT | 0.000  | 10/7/98      | Α       |
| 4,4'-DDT | 0.000  | 10/7/98      | В       |
| 4,4'-DDT | 0.000  | 10/7/98      | C       |
| 4,4'-DDT | 0.000  | 10/7/98      | D       |
| 4,4'-DDT | 0.000  | 10/7/98      | E       |
| 4,4'-DDT | 0.000  | 10/7/98      | F       |
| 4,4'-DDT | 0.000  | 10/7/98      | FB      |
| 4,4'-DDT | 0.000  | 10/10/98     | A       |
| 4,4'-DDT | 0.000  | 10/10/98     | В       |
| 4,4'-DDT | 0.000  | 10/10/98     | C       |
| 4,4'-DDT | 0.000  | 10/10/98     | D       |
| 4,4'-DDT | 0.000  | 10/10/98     | E       |
| 4,4'-DDT | 0.000  | 10/10/98     | F       |
| 4,4'-DDT | 0.000  | 10/13/98     | A       |
| 4,4'-DDT | 0.000  | 10/13/98     | В       |
| 4,4'-DDT | 0.000  | 10/13/98     | C       |
| 4,4'-DDT | 0.000  | 10/13/98     | D       |
| 4,4'-DDT | 0.000  | 10/13/98     | F       |
|          |        |              |         |

| Compound | Result | Date<br>Sampled | Station |
|----------|--------|-----------------|---------|
| 4,4'-DDT | 0.000  | 10/13/98        | FB      |
| 4,4'-DDT | 0.000  | 10/16/98        | A       |
| 4,4'-DDT | 0.000  | 10/16/98        | В       |
| 4,4'-DDT | 0.000  | 10/16/98        | C       |
| 4,4'-DDT | 0.000  | 10/16/98        | D       |
| 4,4'-DDT | 0.000  | 10/16/98        | E       |
| 4,4'-DDT | 0.000  | 10/16/98        | F       |
| 4,4'-DDT | 0.000  | 10/16/98        | FB      |
| 4,4'-DDT | 0.000  | 10/22/98        | A       |
| 4,4'-DDT | 0.000  | 10/22/98        | В       |
| 4,4'-DDT | 0.000  | 10/22/98        | C       |
| 4,4'-DDT | 0.000  | 10/22/98        | D       |
| 4,4'-DDT | 0.000  | 10/22/98        | F       |
| 4,4'-DDT | 0.000  | 10/22/98        | FB      |
| 4,4'-DDT | 0.000  | 10/25/98        | Α       |
| 4,4'-DDT | 0.000  | 10/25/98        | В       |
| 4,4'-DDT | 0.000  | 10/25/98        | С       |
| 4,4'-DDT | 0.000  | 10/25/98        | D       |
| 4,4'-DDT | 0.000  | 10/25/98        | Е       |
| 4,4'-DDT | 0.000  | 10/25/98        | F       |
| 4,4'-DDT | 0.000  | 10/25/98        | FB      |
| 4,4'-DDT | 0.000  | 10/28/98        | Α       |
| 4,4'-DDT | 0.000  | 10/28/98        | В       |
| 4,4'-DDT | 0.000  | 10/28/98        | С       |
| 4,4'-DDT | 0.000  | 10/28/98        | D       |
| 4,4'-DDT | 0.000  | 10/28/98        | Е       |
|          |        |                 |         |

|          | C. State | one de la companya d | THE PLANE IN   |
|----------|----------|--|--|
|          |          | Date   | Section in the section of the sectio |
| Compound | Result   | Sampled  | Station Lands  |
| 4,4'-DDT | 0.000    | 10/28/98   | F  |
| 4,4'-DDT | 0.000    | 10/31/98   | A  |
| 4,4'-DDT | 0.000    | 10/31/98   | В  |
| 4,4'-DDT | 0.000    | 10/31/98   | C  |
| 4,4'-DDT | 0.000    | 10/31/98   | D  |
| 4,4'-DDT | 0.000    | 10/31/98   | F  |
| 4,4'-DDT | 0.000    | 10/31/98   | FB   |
| 4,4'-DDT | 0.000    | 11/3/98  | Α  |
| 4,4'-DDT | 0.000    | 11/3/98  | В  |
| 4,4'-DDT | 0.000    | 11/3/98  | С  |
| 4,4'-DDT | 0.000    | 11/3/98  | D  |
| 4,4'-DDT | 0.000    | 11/3/98  | F  |
| 4,4'-DDT | 0.000    | 11/3/98  | FB   |
| 4,4'-DDT | 0.000    | 11/6/98  | Α  |
| 4,4'-DDT | 0.000    | 11/6/98  | В  |
| 4,4'-DDT | 0.000    | 11/6/98  | C  |
| 4,4'-DDT | 0.000    | 11/6/98  | D  |
| 4,4'-DDT | 0.000    | 11/6/98  | E  |
| 4,4'-DDT | 0.000    | 11/6/98  | F  |
| 4,4'-DDT | 0.000    | 11/9/98  | A  |
| 4,4'-DDT | 0.000    | 11/9/98  | В  |
| 4,4'-DDT | 0.000    | 11/9/98  | C  |
| 4,4'-DDT | 0.000    | 11/9/98  | D  |
| 4,4'-DDT | 0.000    | 11/9/98  | E  |
| 4,4'-DDT | 0.000    | 11/9/98  | F  |
| 4,4'-DDT | 0.000    | 11/9/98  | FB   |
|          |          |  |  |

| Gompound | Result | Date<br>Sampled | Station |
|----------|--------|-----------------|---------|
| 4,4'-DDT | 0.000  | 11/12/98        | A       |
| 4,4'-DDT | 0.000  | 11/12/98        | В       |
| 4,4'-DDT | 0.000  | 11/12/98        | С       |
| 4,4'-DDT | 0.000  | 11/12/98        | D       |
| 4,4'-DDT | 0.000  | 11/12/98        | E       |
| 4,4'-DDT | 0.000  | 11/12/98        | F       |
| 4,4'-DDT | 0.000  | 11/12/98        | FB      |
| 4,4'-DDT | 0.000  | 11/15/98        | Α       |
| 4,4'-DDT | 0.000  | 11/15/98        | В       |
| 4,4'-DDT | 0.000  | 11/15/98        | С       |
| 4,4'-DDT | 0.000  | 11/15/98        | D       |
| 4,4'-DDT | 0.000  | 11/15/98        | E       |
| 4,4'-DDT | 0.000  | 11/15/98        | F       |
| 4,4'-DDT | 0.000  | 11/15/98        | FB      |
| 4,4'-DDT | 0.000  | 11/18/98        | A       |
| 4,4'-DDT | 0.000  | 11/18/98        | В       |
| 4,4'-DDT | 0.000  | 11/18/98        | C       |
| 4,4'-DDT | 0.000  | 11/18/98        | D       |
| 4,4'-DDT | 0.000  | 11/18/98        | F       |
| 4,4'-DDT | 0.000  | 11/18/98        | FB      |
| 4,4'-DDT | 0.000  | 11/21/98        | Α       |
| 4,4'-DDT | 0.000  | 11/21/98        | В       |
| 4,4'-DDT | 0.000  | 11/21/98        | C       |
| 4,4'-DDT | 0.000  | 11/21/98        | D       |
| 4,4'-DDT | 0.000  | 11/21/98        | E       |
| 4,4'-DDT | 0.000  | 11/21/98        | F       |

| Compound | Result | Date<br>Sampled | Station 1 22 |
|----------|--------|-----------------|--------------|
| 4,4'-DDT | 0.000  | 11/21/98        | FB           |
| 4,4'-DDT | 0.000  | 11/24/98        | Α            |
| 4,4'-DDT | 0.000  | 11/24/98        | В            |
| 4,4'-DDT | 0.000  | 11/24/98        | C            |
| 4,4'-DDT | 0.000  | 11/24/98        | D            |
| 4,4'-DDT | 0.000  | 11/24/98        | Е            |
| 4,4'-DDT | 0.000  | 11/24/98        | F            |
| 4,4'-DDT | 0.000  | 11/27/98        | Α            |
| 4,4'-DDT | 0.000  | 11/27/98        | В            |
| 4,4'-DDT | 0.000  | 11/27/98        | C            |
| 4,4'-DDT | 0.000  | 11/27/98        | D            |
| 4,4'-DDT | 0.000  | 11/27/98        | F            |
| 4,4'-DDT | 0.000  | 11/27/98        | FB           |
| 4,4'-DDT | 0.000  | 11/30/98        | Α            |
| 4,4'-DDT | 0.000  | 11/30/98        | В            |
| 4,4'-DDT | 0.000  | 11/30/98        | С            |
| 4,4'-DDT | 0.000  | 11/30/98        | D            |
| 4,4'-DDT | 0.000  | 11/30/98        | Е            |
| 4,4'-DDT | 0.000  | 11/30/98        | F            |
| 4,4'-DDT | 0.000  | 12/3/98         | Α            |
| 4,4'-DDT | 0.000  | 12/3/98         | В            |
| 4,4'-DDT | 0.000  | 12/3/98         | С            |
| 4,4'-DDT | 0.000  | 12/3/98         | D            |
| 4,4'-DDT | 0.000  | 12/3/98         | F            |
| 4,4'-DDT | 0.000  | 12/6/98         | A            |
| 4,4'-DDT | 0.000  | 12/6/98         | В            |
|          |        |                 |              |

|   | Compound | Result | Date Sampled | Station    |
|---|----------|--------|--------------|------------|
|   | 4,4'-DDT | 0.000  | 12/6/98      | C          |
|   | 4,4'-DDT | 0.000  | 12/6/98      | D          |
|   | 4,4'-DDT | 0.000  | 12/6/98      | F          |
|   | 4,4'-DDT | 0.000  | 12/9/98      | Α          |
|   | 4,4'-DDT | 0.000  | 12/9/98      | В          |
|   | 4,4'-DDT | 0.000  | 12/9/98      | C          |
|   | 4,4'-DDT | 0.000  | 12/9/98      | D          |
|   | 4,4'-DDT | 0.000  | 12/9/98      | F          |
|   | 4,4'-DDT | 0.000  | 12/12/98     | A          |
|   | 4,4'-DDT | 0.000  | 12/12/98     | В          |
| 7 | 4,4'-DDT | 0.000  | 12/12/98     | С          |
|   | 4,4'-DDT | 0.000  | 12/12/98     | D          |
|   | 4,4'-DDT | 0.000  | 12/12/98     | E          |
|   | 4,4'-DDT | 0.000  | 12/12/98     | F          |
|   | 4,4'-DDT | 0.000  | 12/12/98     | FB         |
|   | 4,4'-DDT | 0.000  | 12/15/98     | <b>A</b> . |
|   | 4,4'-DDT | 0.000  | 12/15/98     | В          |
|   | 4,4'-DDT | 0.000  | 12/15/98     | С          |
|   | 4,4'-DDT | 0.000  | 12/15/98     | D          |
|   | 4,4'-DDT | 0.000  | 12/15/98     | E          |
|   | 4,4'-DDT | 0.000  | 12/15/98     | F          |
|   | 4,4'-DDT | 0.000  | 12/18/98     | Α          |
|   | 4,4'-DDT | 0.000  | 12/18/98     | В          |
|   | 4,4'-DDT | 0.000  | 12/18/98     | С          |
|   | 4,4'-DDT | 0.000  | 12/18/98     | D          |
|   | 4,4'-DDT | 0.000  | 12/18/98     | F          |
|   |          |        |              |            |

| Compound | Result | Date Sampled S | Station |
|----------|--------|----------------|---------|
| 4,4'-DDT | 0.000  | 12/18/98       | FB      |
| 4,4'-DDT | 0.000  | 12/21/98       | A       |
| 4,4'-DDT | 0.000  | 12/21/98       | В       |
| 4,4'-DDT | 0.000  | 12/21/98       | C       |
| 4,4'-DDT | 0.000  | 12/21/98       | D       |
| 4,4'-DDT | 0.000  | 12/21/98       | E       |
| 4,4'-DDT | 0.000  | 12/21/98       | F       |
| 4,4'-DDT | 0.000  | 12/21/98       | FB      |
| 4,4'-DDT | 0.000  | 12/27/98       | Α       |
| 4,4'-DDT | 0.000  | 12/27/98       | В       |
| 4,4'-DDT | 0.000  | 12/27/98       | C       |
| 4,4'-DDT | 0.000  | 12/27/98       | D       |
| 4,4'-DDT | 0.000  | 12/27/98       | E       |
| 4,4'-DDT | 0.000  | 12/27/98       | F       |
| 4,4'-DDT | 0.000  | 12/30/98       | Α       |
| 4,4'-DDT | 0.000  | 12/30/98       | В       |
| 4,4'-DDT | 0.000  | 12/30/98       | С       |
| 4,4'-DDT | 0.000  | 12/30/98       | D       |
| 4,4'-DDT | 0.000  | 12/30/98       | F       |
| 4,4'-DDT | 0.000  | 12/30/98       | FB      |
| ALDRIN   | 0.000  | 10/1/98        | Α       |
| ALDRIN   | 0.000  | 10/1/98        | В       |
| ALDRIN   | 0.000  | 10/1/98        | С       |
| ALDRIN   | 0.000  | 10/1/98        | D       |
| ALDRIN   | 0.000  | 10/1/98        | Е       |
| ALDRIN   | 0.000  | 10/1/98        | F       |
|          |        |                |         |

| Compound | Result | Date<br>Sampled | Station  |
|----------|--------|-----------------|----------|
| ALDRIN   |        |                 |          |
| ALDRIN   | 0.000  | 10/4/98         | <b>A</b> |
| ALDRIN   | 0.000  | 10/4/98         | В        |
| ALDRIN   | 0.000  | 10/4/98         | C        |
|          | 0.000  | 10/4/98         | D        |
| ALDRIN   | 0.000  | 10/4/98         | F        |
| ALDRIN   | 0.000  | 10/4/98         | FB       |
| ALDRIN   | 0.000  | 10/7/98         | Α        |
| ALDRIN   | 0.000  | 10/7/98         | В        |
| ALDRIN   | 0.000  | 10/7/98         | С        |
| ALDRIN   | 0.000  | 10/7/98         | D        |
| ALDRIN   | 0.000  | 10/7/98         | Е        |
| ALDRIN   | 0.000  | 10/7/98         | F        |
| ALDRIN   | 0.000  | 10/7/98         | FB       |
| ALDRIN   | 0.000  | 10/10/98        | Α        |
| ALDRIN   | 0.000  | 10/10/98        | В        |
| ALDRIN   | 0.000  | 10/10/98        | С        |
| ALDRIN   | 0.000  | 10/10/98        | D        |
| ALDRIN   | 0.000  | 10/10/98        | Е        |
| ALDRIN   | 0.000  | 10/10/98        | F        |
| ALDRIN   | 0.000  | 10/13/98        | Α        |
| ALDRIN   | 0.000  | 10/13/98        | В        |
| ALDRIN   | 0.000  | 10/13/98        | С        |
| ALDRIN   | 0.000  | 10/13/98        | D        |
| ALDRIN   | 0.000  | 10/13/98        | F        |
| ALDRIN   | 0.000  | 10/13/98        | FB       |
| ALDRIN   | 0.000  | 10/16/98        | <b>A</b> |
|          |        |                 |          |

| Compound | Result | Date<br>Sampled | Station |
|----------|--------|-----------------|---------|
| ALDRIN   | 0.000  | 10/16/98        | В       |
| ALDRIN   | 0.000  | 10/16/98        | С       |
| ALDRIN   | 0.000  | 10/16/98        | D       |
| ALDRIN   | 0.000  | 10/16/98        | E       |
| ALDRIN   | 0.000  | 10/16/98        | F       |
| ALDRIN   | 0.000  | 10/16/98        | FB      |
| ALDRIN   | 0.000  | 10/22/98        | Α       |
| ALDRIN   | 0.000  | 10/22/98        | В       |
| ALDRIN   | 0.000  | 10/22/98        | C       |
| ALDRIN   | 0.000  | 10/22/98        | D       |
| ALDRIN   | 0.000  | 10/22/98        | F       |
| ALDRIN   | 0.000  | 10/22/98        | FB      |
| ALDRIN   | 0.000  | 10/25/98        | Α       |
| ALDRIN   | 0.000  | 10/25/98        | В       |
| ALDRIN   | 0.000  | 10/25/98        | C       |
| ALDRIN   | 0.000  | 10/25/98        | D       |
| ALDRIN   | 0.000  | 10/25/98        | E       |
| ALDRIN   | 0.000  | 10/25/98        | F       |
| ALDRIN   | 0.000  | 10/25/98        | FB      |
| ALDRIN   | 0.000  | 10/28/98        | Α       |
| ALDRIN   | 0.000  | 10/28/98        | В       |
| ALDRIN   | 0.000  | 10/28/98        | C       |
| ALDRIN   | 0.000  | 10/28/98        | D       |
| ALDRIN   | 0.000  | 10/28/98        | E       |
| ALDRIN   | 0.000  | 10/28/98        | F       |
| ALDRIN   | 0.000  | 10/31/98        | Α       |
|          |        |                 |         |

| Compound | Result | Date and Sampled | Station |
|----------|--------|------------------|---------|
| ALDRIN   | 0.000  | 10/31/98         | В       |
| ALDRIN   | 0.000  | 10/31/98         | C       |
| ALDRIN   | 0.000  | 10/31/98         | D       |
| ALDRIN   | 0.000  | 10/31/98         | F       |
| ALDRIN   | 0.000  | 10/31/98         | FB      |
| ALDRIN   | 0.000  | 11/3/98          | Α       |
| ALDRIN   | 0.000  | 11/3/98          | В       |
| ALDRIN   | 0.000  | 11/3/98          | C       |
| ALDRIN   | 0.000  | 11/3/98          | D       |
| ALDRIN   | 0.000  | 11/3/98          | F       |
| ALDRIN   | 0.000  | 11/3/98          | FB      |
| ALDRIN   | 0.000  | 11/6/98          | Α       |
| ALDRIN   | 0.000  | 11/6/98          | В       |
| ALDRIN   | 0.000  | 11/6/98          | C       |
| ALDRIN   | 0.000  | 11/6/98          | D       |
| ALDRIN   | 0.000  | 11/6/98          | E       |
| ALDRIN   | 0.000  | 11/6/98          | F       |
| ALDRIN   | 0.000  | 11/9/98          | A       |
| ALDRIN   | 0.000  | 11/9/98          | В       |
| ALDRIN   | 0.000  | 11/9/98          | C       |
| ALDRIN   | 0.000  | 11/9/98          | D       |
| ALDRIN   | 0.000  | 11/9/98          | E       |
| ALDRIN   | 0.000  | 11/9/98          | F       |
| ALDRIN   | 0.000  | 11/9/98          | FB      |
| ALDRIN   | 0.000  | 11/12/98         | A       |
| ALDRIN   | 0.000  | 11/12/98         | В       |
|          |        |                  |         |

| Compound | Result | Date<br>Sampled | Station |
|----------|--------|-----------------|---------|
| ALDRIN   | 0.000  | 11/12/98        | C       |
| ALDRIN   | 0.000  | 11/12/98        | D       |
| ALDRIN   | 0.000  | 11/12/98        | E       |
| ALDRIN   | 0.000  | 11/12/98        | F       |
| ALDRIN   | 0.000  | 11/12/98        | FB      |
| ALDRIN   | 0.000  | 11/15/98        | Α       |
| ALDRIN   | 0.000  | 11/15/98        | В       |
| ALDRIN   | 0.000  | 11/15/98        | C       |
| ALDRIN   | 0.000  | 11/15/98        | D       |
| ALDRIN   | 0.000  | 11/15/98        | E       |
| ALDRIN   | 0.000  | 11/15/98        | F       |
| ALDRIN   | 0.000  | 11/15/98        | FB      |
| ALDRIN   | 0.000  | 11/18/98        | Α       |
| ALDRIN   | 0.000  | 11/18/98        | В       |
| ALDRIN   | 0.000  | 11/18/98        | C       |
| ALDRIN   | 0.000  | 11/18/98        | D       |
| ALDRIN   | 0.000  | 11/18/98        | F       |
| ALDRIN   | 0.000  | 11/18/98        | FB      |
| ALDRIN   | 0.000  | 11/21/98        | A       |
| ALDRIN   | 0.000  | 11/21/98        | В       |
| ALDRIN   | 0.000  | 11/21/98        | C       |
| ALDRIN   | 0.000  | 11/21/98        | D       |
| ALDRIN   | 0.000  | 11/21/98        | E       |
| ALDRIN   | 0.000  | 11/21/98        | F       |
| ALDRIN   | 0.000  | 11/21/98        | FB      |
| ALDRIN   | 0.000  | 11/24/98        | A       |
|          |        |                 |         |

|           | and the second |          |         |
|-----------|----------------|----------|---------|
|           |                | Date     |         |
| Compound, | Result         | Sampled  | Station |
| ALDRIN    | 0.000          | 11/24/98 | В       |
| ALDRIN    | 0.000          | 11/24/98 | C       |
| ALDRIN    | 0.000          | 11/24/98 | D       |
| ALDRIN    | 0.000          | 11/24/98 | E       |
| ALDRIN    | 0.000          | 11/24/98 | F       |
| ALDRIN    | 0.000          | 11/27/98 | Α       |
| ALDRIN    | 0.000          | 11/27/98 | В       |
| ALDRIN    | 0.000          | 11/27/98 | C       |
| ALDRIN    | 0.000          | 11/27/98 | D       |
| ALDRIN    | 0.000          | 11/27/98 | F       |
| ALDRIN    | 0.000          | 11/27/98 | FB      |
| ALDRIN    | 0.000          | 11/30/98 | A       |
| ALDRIN    | 0.000          | 11/30/98 | В       |
| ALDRIN    | 0.000          | 11/30/98 | С       |
| ALDRIN    | 0.000          | 11/30/98 | D       |
| ALDRIN    | 0.000          | 11/30/98 | E       |
| ALDRIN    | 0.000          | 11/30/98 | F       |
| ALDRIN    | 0.000          | 12/3/98  | Α       |
| ALDRIN    | 0.000          | 12/3/98  | В       |
| ALDRIN    | 0.000          | 12/3/98  | С       |
| ALDRIN    | 0.000          | 12/3/98  | D       |
| ALDRIN    | 0.000          | 12/3/98  | F       |
| ALDRIN    | 0.000          | 12/6/98  | Α       |
| ALDRIN    | 0.000          | 12/6/98  | В       |
| ALDRIN    | 0.000          | 12/6/98  | С       |
| ALDRIN    | 0.000          | 12/6/98  | D       |
|           |                |          |         |

| Compound | Result | Date Sampled | Station State |
|----------|--------|--------------|---------------|
| ALDRIN   | 0.000  | 12/6/98      | F             |
| ALDRIN   | 0.000  | 12/9/98      | Α             |
| ALDRIN   | 0.000  | 12/9/98      | В             |
| ALDRIN   | 0.000  | 12/9/98      | C             |
| ALDRIN   | 0.000  | 12/9/98      | D             |
| ALDRIN   | 0.000  | 12/9/98      | F             |
| ALDRIN   | 0.000  | 12/12/98     | Α             |
| ALDRIN   | 0.000  | 12/12/98     | В             |
| ALDRIN   | 0.000  | 12/12/98     | С             |
| ALDRIN   | 0.000  | 12/12/98     | D             |
| ALDRIN   | 0.000  | 12/12/98     | E             |
| ALDRIN   | 0.000  | 12/12/98     | F             |
| ALDRIN   | 0.000  | 12/12/98     | FB            |
| ALDRIN   | 0.000  | 12/15/98     | Α             |
| ALDRIN   | 0.000  | 12/15/98     | В             |
| ALDRIN   | 0.000  | 12/15/98     | C             |
| ALDRIN   | 0.000  | 12/15/98     | D             |
| ALDRIN   | 0.000  | 12/15/98     | E             |
| ALDRIN   | 0.000  | 12/15/98     | F             |
| ALDRIN   | 0.000  | 12/18/98     | Α             |
| ALDRIN   | 0.000  | 12/18/98     | В             |
| ALDRIN   | 0.000  | 12/18/98     | С             |
| ALDRIN   | 0.000  | 12/18/98     | D             |
| ALDRIN   | 0.000  | 12/18/98     | F             |
| ALDRIN   | 0.000  | 12/18/98     | FB            |
| ALDRIN   | 0.000  | 12/21/98     | A             |

| Compound     | Result | Date<br>Sampled | Station |
|--------------|--------|-----------------|---------|
| ALDRIN       | 0.000  | 12/21/98        | В       |
| ALDRIN       | 0.000  | 12/21/98        | C       |
| ALDRIN       | 0.000  | 12/21/98        | D       |
| ALDRIN       | 0.000  | 12/21/98        | E       |
| ALDRIN       | 0.000  | 12/21/98        | F       |
| ALDRIN       | 0.000  | 12/21/98        | FB      |
| ALDRIN       | 0.000  | 12/27/98        | Α       |
| ALDRIN       | 0.000  | 12/27/98        | В       |
| ALDRIN       | 0.000  | 12/27/98        | C       |
| ALDRIN       | 0.000  | 12/27/98        | D       |
| ALDRIN       | 0.000  | 12/27/98        | E       |
| ALDRIN       | 0.000  | 12/27/98        | F       |
| ALDRIN       | 0.000  | 12/30/98        | Α       |
| ALDRIN       | 0.000  | 12/30/98        | В       |
| ALDRIN       | 0.000  | 12/30/98        | С       |
| ALDRIN       | 0.000  | 12/30/98        | D       |
| ALDRIN       | 0.000  | 12/30/98        | F       |
| ALDRIN       | 0.000  | 12/30/98        | FB      |
| AROCLOR 1242 | 0.001  | 10/1/98         | Α       |
| AROCLOR 1242 | 0.001  | 10/1/98         | В       |
| AROCLOR 1242 | 0.001  | 10/1/98         | С       |
| AROCLOR 1242 | 0.001  | 10/1/98         | D       |
| AROCLOR 1242 | 0.001  | 10/1/98         | Е       |
| AROCLOR 1242 | 0.001  | 10/1/98         | F       |
| AROCLOR 1242 | 0.001  | 10/4/98         | Α       |
| AROCLOR 1242 | 0.001  | 10/4/98         | В       |
|              |        |                 |         |

| Compound     | Result | Date<br>Sampled | Station |
|--------------|--------|-----------------|---------|
| AROCLOR 1242 | 0.001  | 10/4/98         | C       |
| AROCLOR 1242 | 0.001  | 10/4/98         | D       |
| AROCLOR 1242 | 0.001  | 10/4/98         | F       |
| AROCLOR 1242 | 0.001  | 10/4/98         | FB      |
| AROCLOR 1242 | 0.001  | 10/7/98         | Α       |
| AROCLOR 1242 | 0.001  | 10/7/98         | В       |
| AROCLOR 1242 | 0.001  | 10/7/98         | С       |
| AROCLOR 1242 | 0.001  | 10/7/98         | D       |
| AROCLOR 1242 | 0.001  | 10/7/98         | E       |
| AROCLOR 1242 | 0.001  | 10/7/98         | F       |
| AROCLOR 1242 | 0.001  | 10/7/98         | FB      |
| AROCLOR 1242 | 0.001  | 10/10/98        | A       |
| AROCLOR 1242 | 0.001  | 10/10/98        | В       |
| AROCLOR 1242 | 0.001  | 10/10/98        | С       |
| AROCLOR 1242 | 0.001  | 10/10/98        | D       |
| AROCLOR 1242 | 0.001  | 10/10/98        | E       |
| AROCLOR 1242 | 0.001  | 10/10/98        | F       |
| AROCLOR 1242 | 0.001  | 10/13/98        | Α       |
| AROCLOR 1242 | 0.001  | 10/13/98        | В       |
| AROCLOR 1242 | 0.001  | 10/13/98        | C       |
| AROCLOR 1242 | 0.001  | 10/13/98        | D       |
| AROCLOR 1242 | 0.001  | 10/13/98        | F       |
| AROCLOR 1242 | 0.001  | 10/13/98        | FB      |
| AROCLOR 1242 | 0.001  | 10/16/98        | Α       |
| AROCLOR 1242 | 0.001  | 10/16/98        | В       |
| AROCLOR 1242 | 0.001  | 10/16/98        | С       |
|              |        |                 |         |



|              |  |        | Date     |         |
|--------------|--|--------|----------|---------|
| Compound     | And the second s | Result | Sampled  | Station |
| AROCLOR 1242 |  | 0.001  | 10/16/98 | D       |
| AROCLOR 1242 |  | 0.001  | 10/16/98 | E       |
| AROCLOR 1242 |  | 0.001  | 10/16/98 | F       |
| AROCLOR 1242 |  | 0.001  | 10/16/98 | FB      |
| AROCLOR 1242 |  | 0.001  | 10/22/98 | Α       |
| AROCLOR 1242 |  | 0.001  | 10/22/98 | В       |
| AROCLOR 1242 |  | 0.001  | 10/22/98 | C       |
| AROCLOR 1242 |  | 0.001  | 10/22/98 | D       |
| AROCLOR 1242 | •  | 0.001  | 10/22/98 | F       |
| AROCLOR 1242 |  | 0.001  | 10/22/98 | FB      |
| AROCLOR 1242 |  | 0.001  | 10/25/98 | Α       |
| AROCLOR 1242 |  | 0.001  | 10/25/98 | В       |
| AROCLOR 1242 |  | 0.001  | 10/25/98 | C       |
| AROCLOR 1242 |  | 0.001  | 10/25/98 | D       |
| AROCLOR 1242 |  | 0.001  | 10/25/98 | E       |
| AROCLOR 1242 |  | 0.001  | 10/25/98 | F       |
| AROCLOR 1242 |  | 0.001  | 10/25/98 | FB      |
| AROCLOR 1242 |  | 0.001  | 10/28/98 | Α       |
| AROCLOR 1242 |  | 0.001  | 10/28/98 | В       |
| AROCLOR 1242 |  | 0.001  | 10/28/98 | C       |
| AROCLOR 1242 |  | 0.001  | 10/28/98 | D       |
| AROCLOR 1242 |  | 0.001  | 10/28/98 | Е       |
| AROCLOR 1242 |  | 0.001  | 10/28/98 | F       |
| AROCLOR 1242 |  | 0.001  | 10/31/98 | Α       |
| AROCLOR 1242 |  | 0.001  | 10/31/98 | В       |
| AROCLOR 1242 |  | 0.001  | 10/31/98 | C       |
|              |  |        |          |         |